MISSOURI BOTANICAL GARDEN

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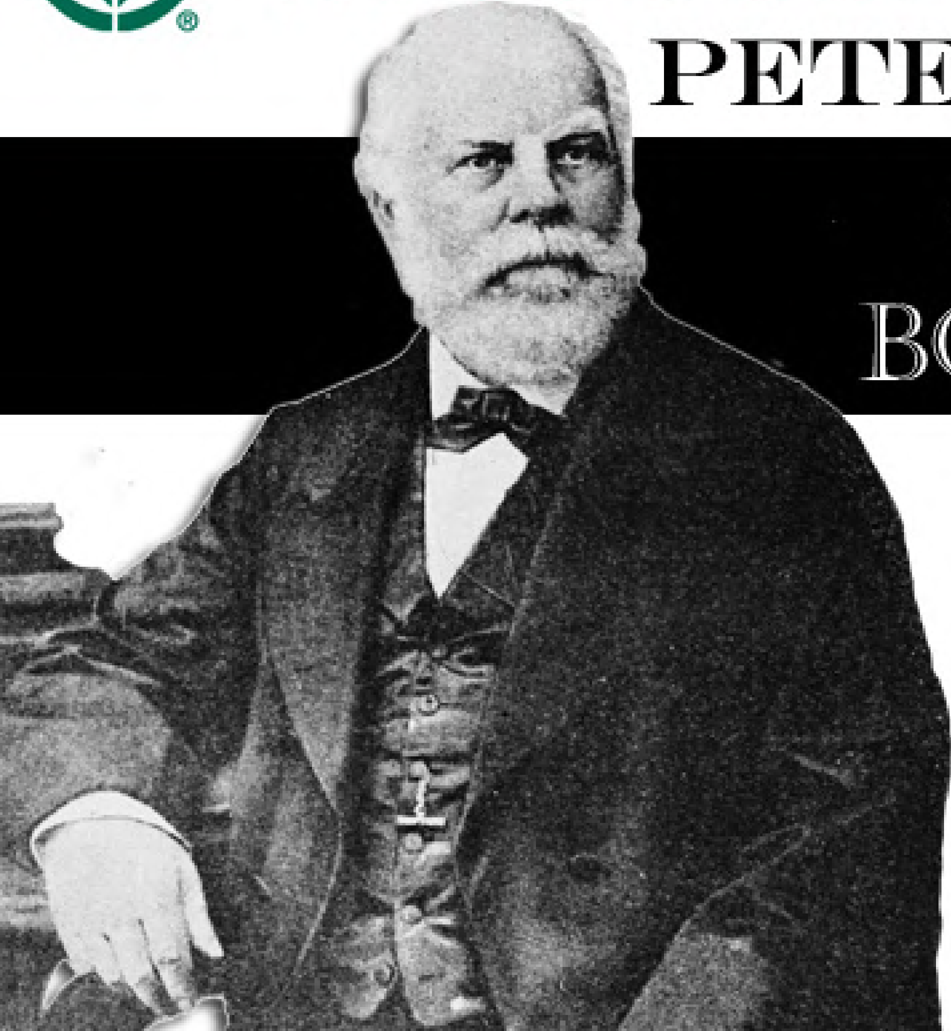
# GEORGE ENGELMANN BOTANICAL NOTEBOOKS



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Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

1-51

107
Asclepiadaceae

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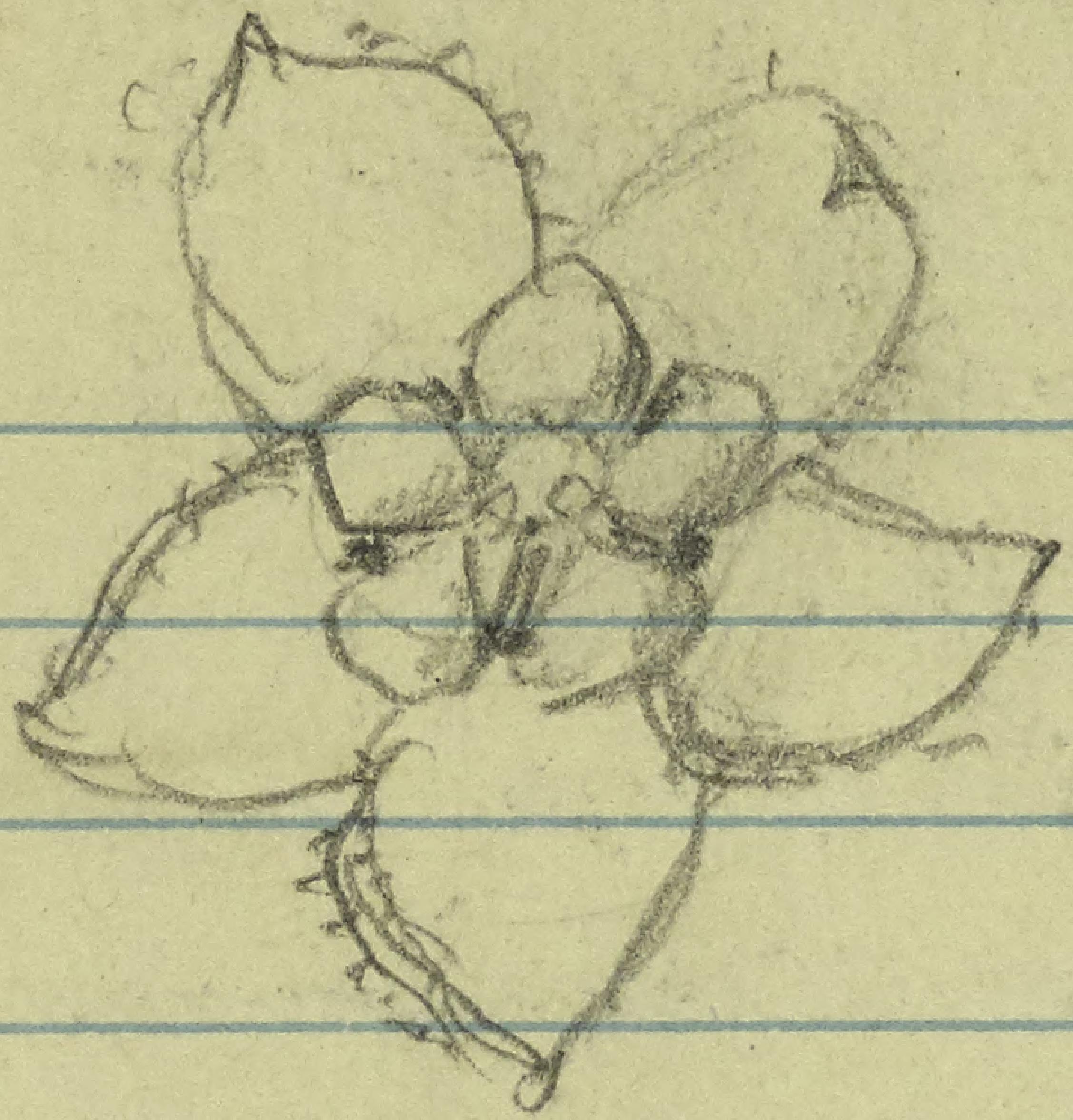
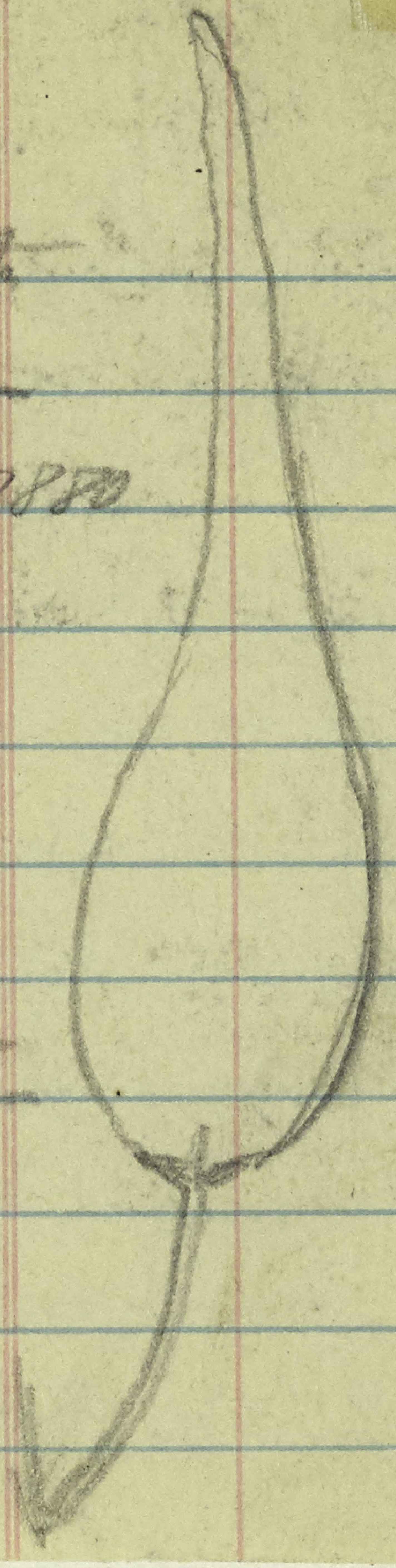


Philibert
Tucson
Sept 24 1880



climbing over hedges

Flowers white, lobes cuspidate
ciliate slightly on the inner margin
follicle ovate, long and
slenderly acuminate

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Op. mammillata 2' high
3' in dia. very much branched
proliferous fertile, not
fragile

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GEORGE ENGELMANN PAPERS

So. 26 Camp in Cañon Abundance!! 5500'
still abundant 6500' Platan. Frax. P. Ch
P. Jeffreyi ?? Q. hypoleuca, Douglas ?? Emory
Agave Palmeri, slender, Yucca baccata
Agave Palmeri Cañon ~~2~~18 – 25 y
x [illegible] most numerous in the ba
scape 110 inches of which 30" in spike
of 7 (~~5~~ – 10) branches 4" circumf.
very slender [illegible] branches [illegible]

Pollinarium = Pollen masses (Schnizlein Icon)

Pollinia = bursae polliniferae, pollinis granula includentes (Endlicher)

Pollinia in Asclepias compressa apice attenuata affixa pendula (Endlicher)
therefore = Pollen masses.

Asclepiadeae verae: Antherae biloculares
Pollinia 10 per pari processubus, sulco longitudinali 2-partitis affixa. (Endlicher)

Corpuscula cartilaginea Brunea Decaisne in DC

Massae pollinis " "

Antherarum loculi extus in appendices cartilagineas projecti " "

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*Respectfully Yours,*

A. H. WORTHEN.

**State Geologist.**

4106

# Botanical Sketches

by

Dr. Geo. Engelmann

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Gonolobus

the lobes more or less purple : stamens many. — Rohrbach in Mart. Fl. Bras. xiv². 310, t. 70.

A very variable species, widely distributed around the globe. It has been collected near Fort Mohave (*Cooper*), and is frequent in saline or alkaline valleys through the interior from N. Nevada to Colorado and New Mexico, often with much broader leaves than is usual in the sea-coast forms.

### 3. **MOLLUGO,** Linn. CARPET-WEED.

Calyx 5-cleft nearly to the base; the lobes herbaceous, membranously margined. Petals none. Stamens 3 or 5, rarely twice as many, hypogynous. Styles 3. Capsule free, thin-membranaceous, 3 – 5-celled, loculicidally 3 – 5-valved, the partitions breaking away from the persistent central placenta. Seeds several in each cell, longitudinally sulcate on the back. — Annuals, low and much branched, glabrous, not succulent; leaves linear to obovate-spatulate, entire, opposite and apparently verticillate; stipules obsolete; flowers mostly on long pedicels and axillary.

About a dozen species in the warmer regions of the globe. The following is the only one indigenous to N. America.

1. **M. verticillata,** Linn. Prostrate, covering the ground, slender: leaves spatulate to linear-oblanceolate, an inch long or less: pedicels umbellately fascicled at the nodes, slender, 2 or 3 lines long: sepals and oblong-ovoid capsule about $1\frac{1}{2}$ lines long: seeds reniform, shining. — Rohrbach, l. c. 240, t. 55.

On light sandy soils from the Columbia River southward; at Eagle Creek, near Shasta, and at McCumber's Flat (*Brewer*, *Newberry*); from Arizona to Colorado and New Mexico, and frequent in the Atlantic States as a weed in cultivated grounds: thence southward to the W. Indies and Brazil.

## ORDER XLV. UMBELLIFERÆ.

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It is mainly a tropical and subtropical family, of the Old World. Our Pacific Coast has only two indigenous representatives, both insignificant, and as many naturalized ones, which appear as if wild on the sea-shore.

* Calyx-tube adnate to the ovary : petals and stamens very numerous.

1. **Mesembryanthemum.** Capsule 5-valved or more. Very fleshy.

* * Ovary free : petals none : stamens few or many.

2. **Sesuvium.** Calyx-lobes 5, petaloid. Stamens 5 to 60. Capsule circumscissile. Succulent.
3. **Mollugo.** Sepals 5. Stamens 3 or 5. Capsule 3-valved. Not succulent.

### 1. MESEMBRYANTHEMUM, Linn. ICE-PLANT. FIG-MARYGOLD.

Calyx-tube adnate to the ovary; the lobes usually 5, unequal, foliaceous. Petals very numerous, linear. Stamens innumerable, with slender filaments, inserted with the petals on the tube of the calyx. Styles 4 to 20, usually 5. Capsule 4–20-celled, dehiscing in a star-like manner at the depressed summit. Seeds minute, very numerous.—Fleshy herbs or shrubs, rarely annual; leaves mostly opposite, without stipules; flowers mostly showy, terminal and in the forks of the branches.

A genus of about 300 species, principally S. African, but a few found in the Mediterranean region, Western S. America, and Australia. The Californian species are probably introduced.

1. **M. æquilaterale,** Haworth. Perennial, with stout prostrate or ascending stems and short ascending flowering branches : leaves very fleshy, opposite and clasping, linear, acutely triangular, 1 to 3 inches long, smooth : flowers solitary, red, pedicellate or

4108

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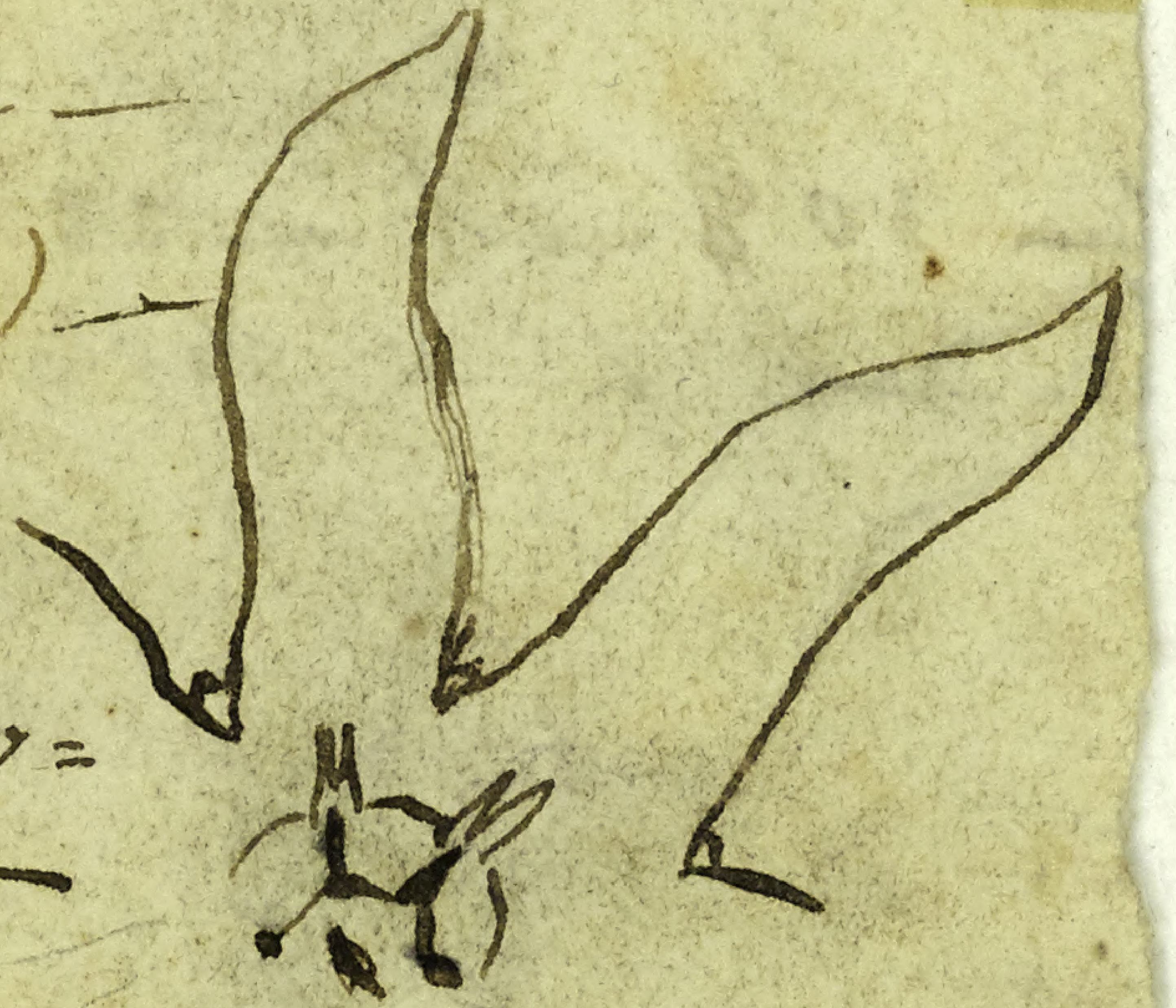
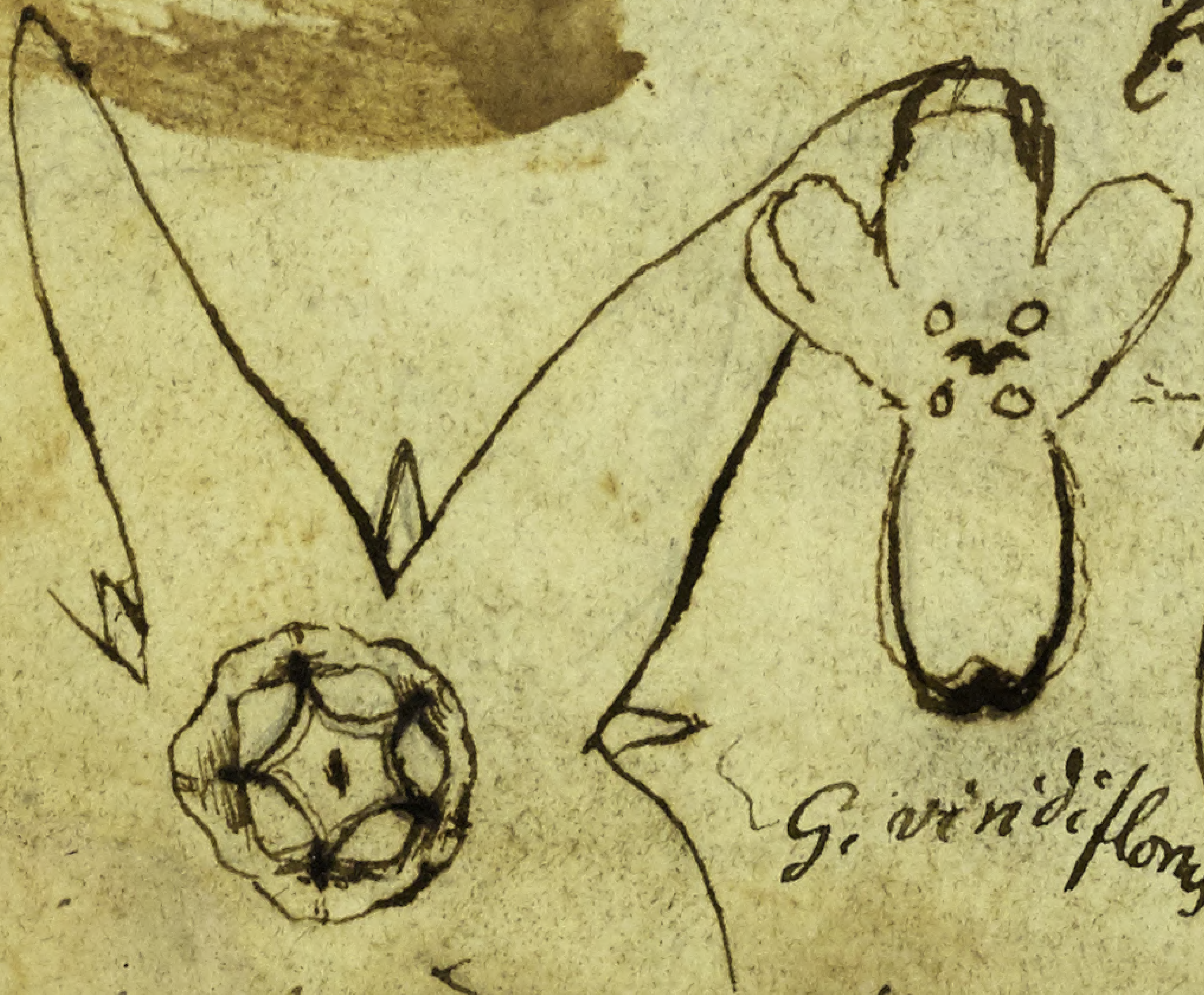
~~[illegible] 20 $~~
~~[illegible] 5 $~~
(Blackwell 4 $)
[illegible] $1.

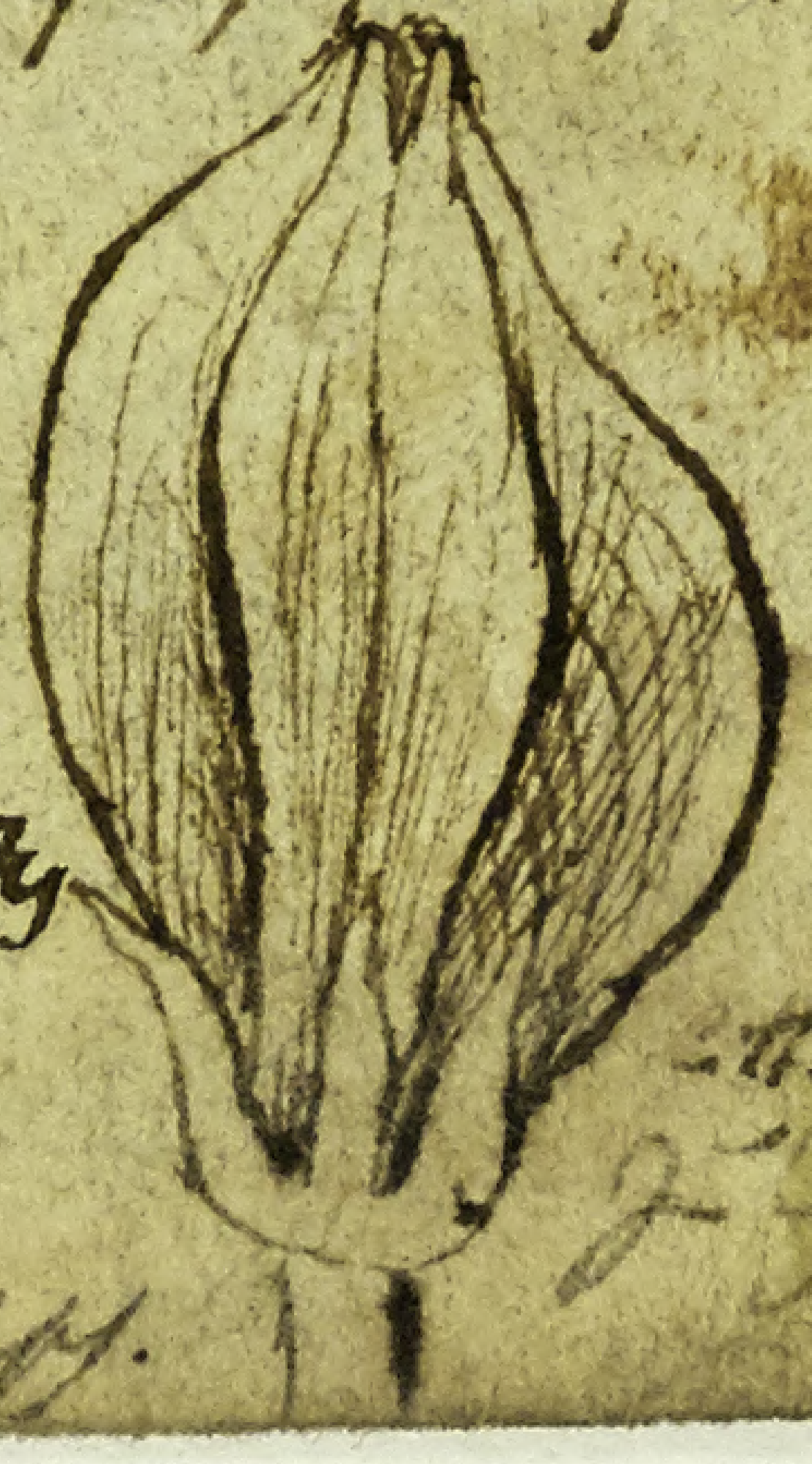
G. hirsutus
braune [illegible] Blüthen=
Arkansas [illegible]
Fort Gibson.



[illegible] Synanth. [illegible]
[illegible] Horsemint
Little Rock
[illegible] Mignon [illegible]



G. viridiflorus



grüngelbe Asclepiadee mit Frucht.
Die [illegible] Frucht ist [illegible]

[illegible]
Juli 13

4109

[illegible] 30 ℔ nail. — 28 May 1835
[illegible] für die nails [illegible] bezahlt
22 1/2 $

[illegible]
[illegible] für für die [illegible]

für 106 ℔ [illegible] den [illegible] 100 [illegible] für [illegible]

– 20 [illegible] = [illegible] 14 3/4 Dollar.

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[illegible] 9 1/2
[illegible] 18 [illegible]
$100
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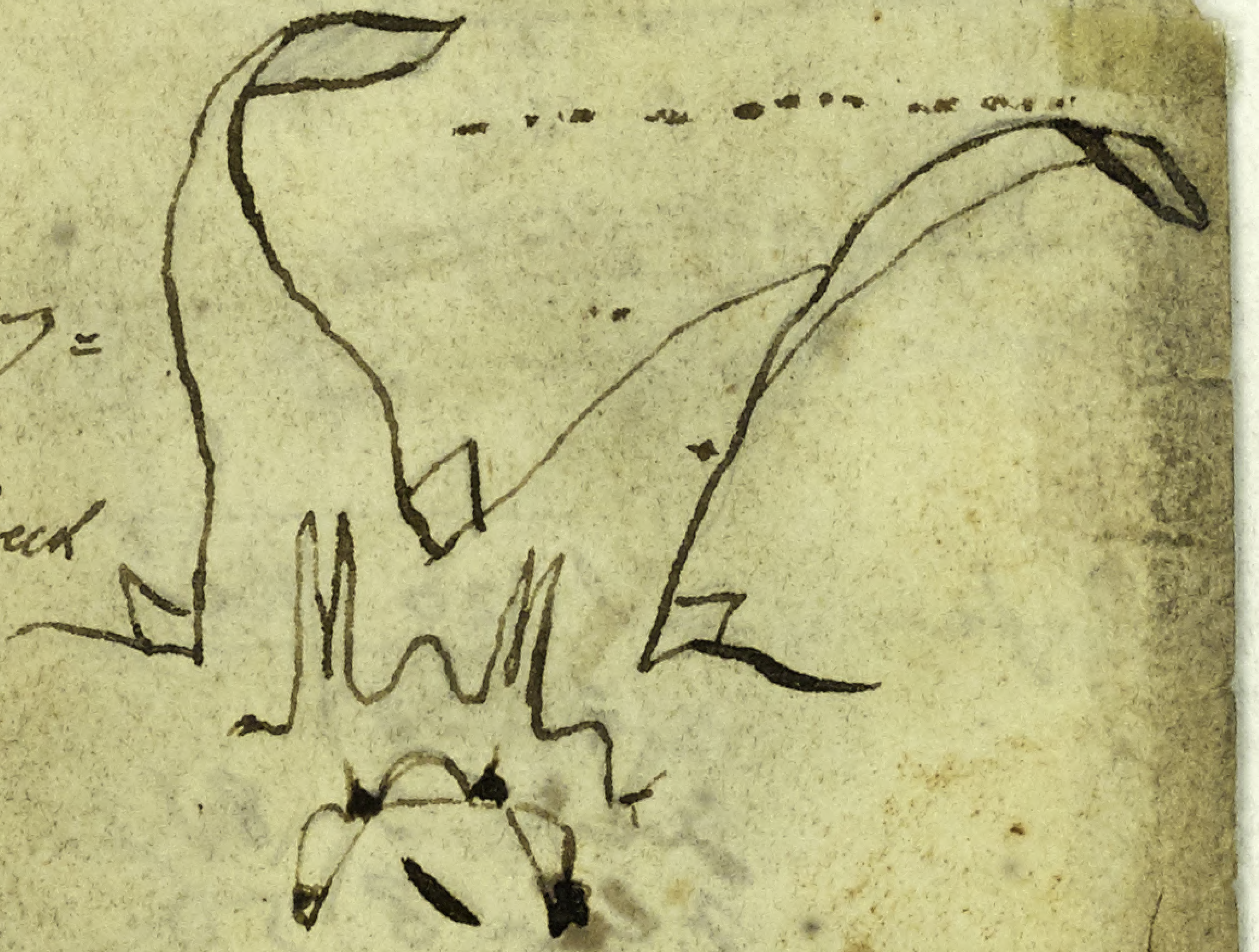
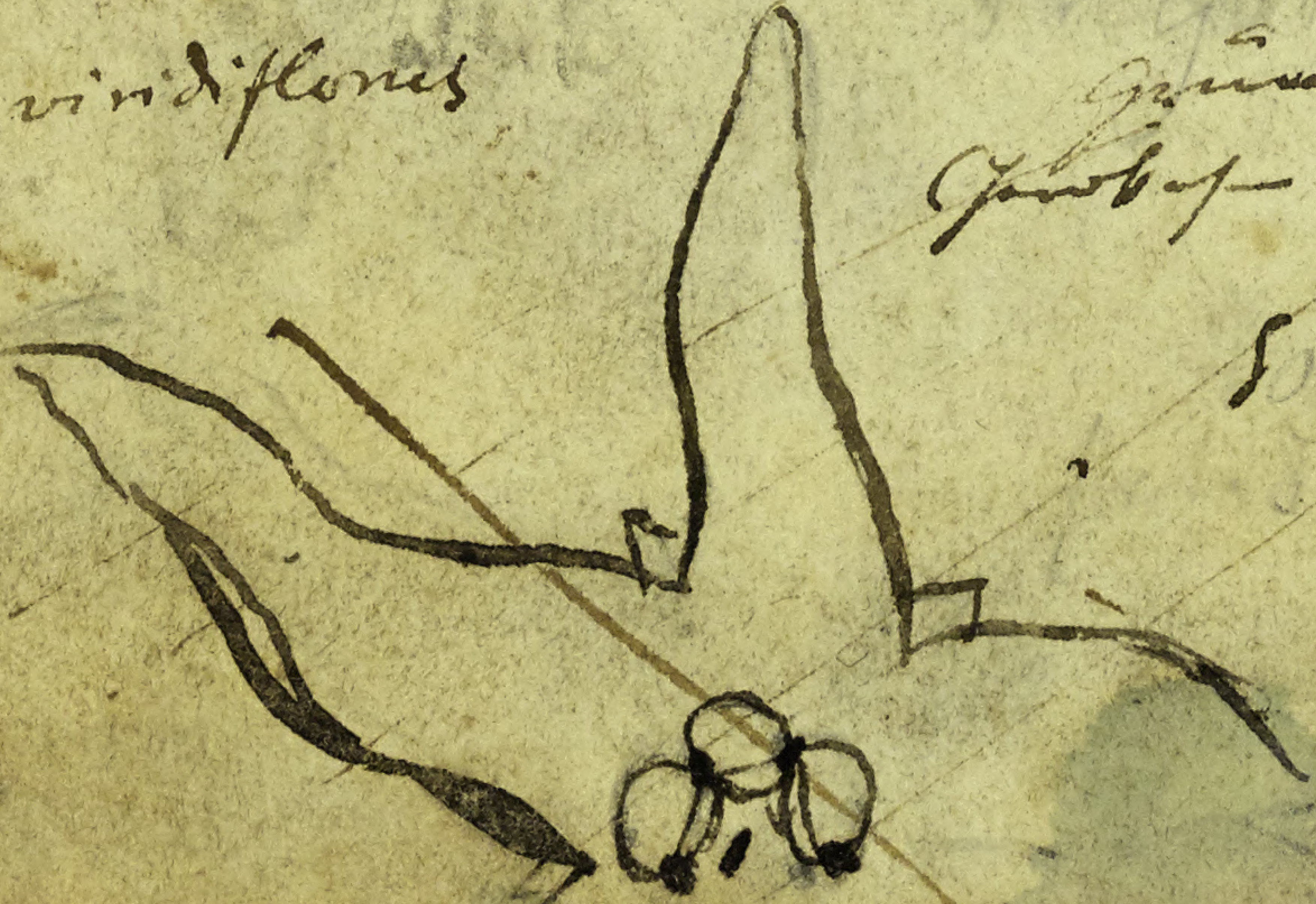
G. carolinensis

weiße Schlang=
[illegible]
= Frischlags Creek



# Gonolobus

G. viridiflorus



grüngelb
Gerbers Schlangel[illegible]
[illegible]

~~[illegible] 50~~

~~[illegible] 12½ 12½~~

[illegible] 3,12½

~~[illegible] 9 $ [illegible]~~

[illegible] 2$

2/4110

48c

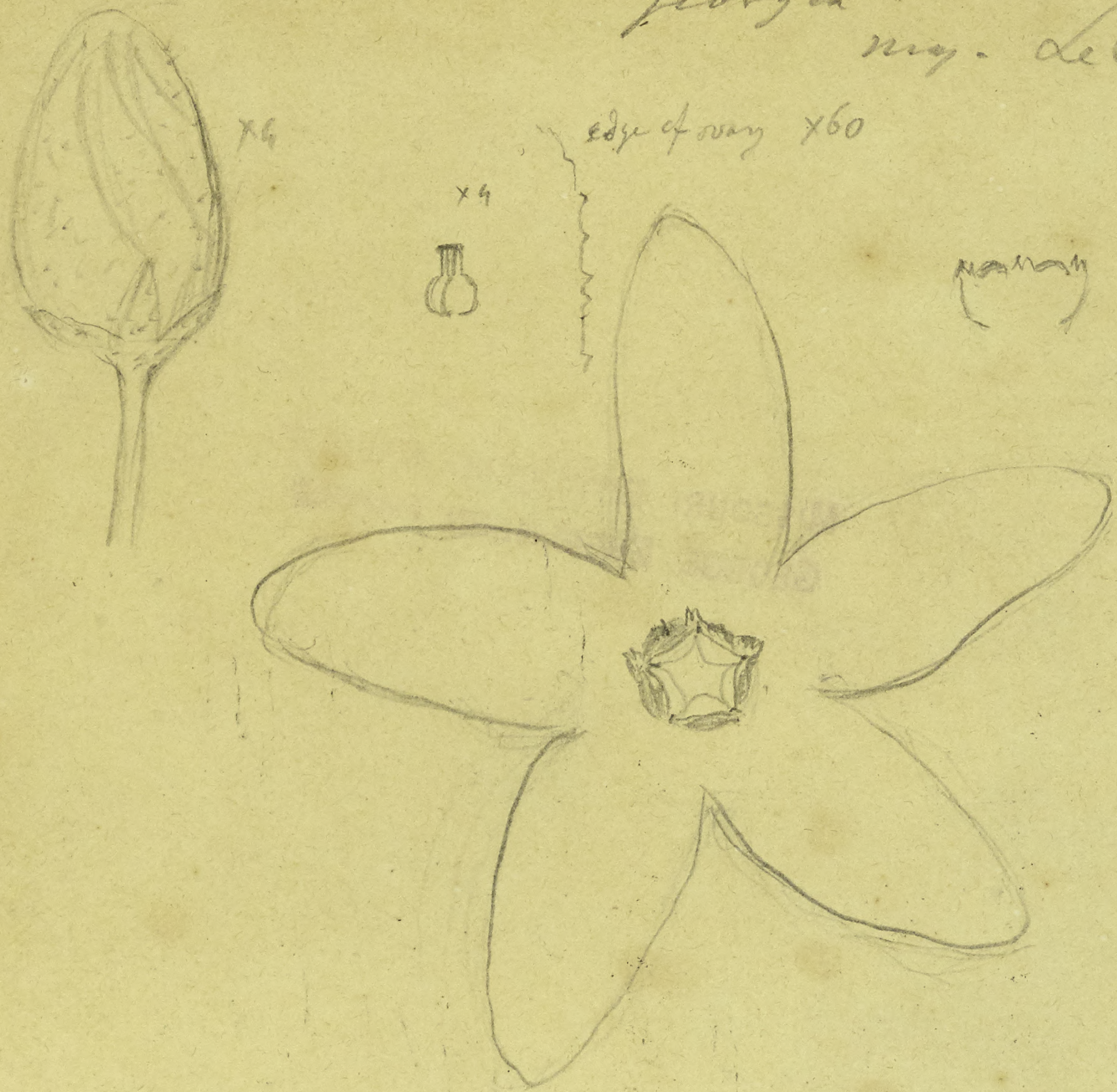
[illegible] 20 Mai

| | | |
|---|---|---|
| Not. | 35 | |
| Gold | 3 | 81 |
| Silber | 8 | 56 |
| [illegible] | 24 | 31 |
| $ | 71 | 68 c |

Gonolobus hirsutus Michx Febr 4 1876

Georgia

my. LeConte


x4
x4
edge of ovary x60

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**DRUGGISTS**

South West Corner Fifth and Market Streets.

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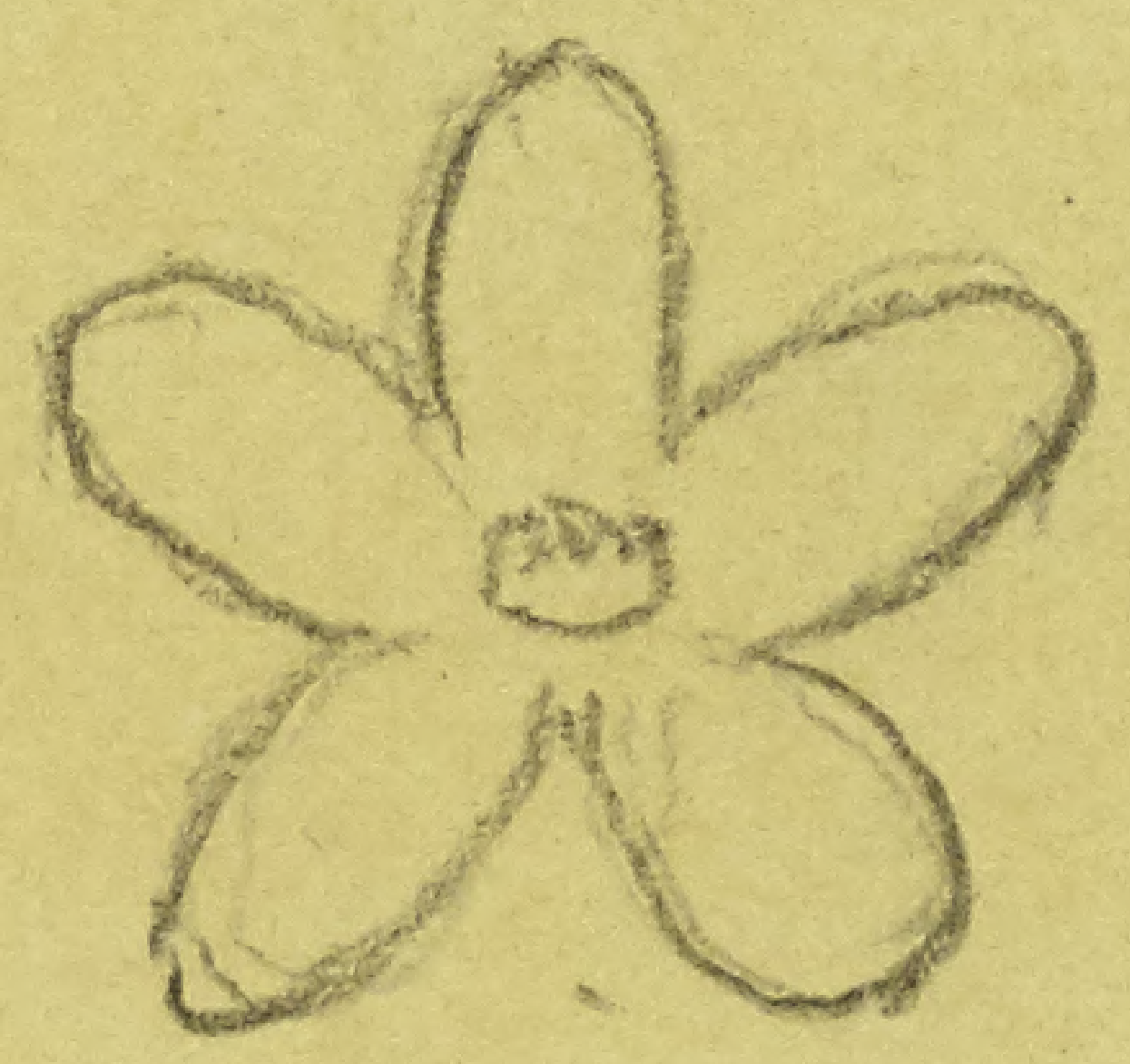
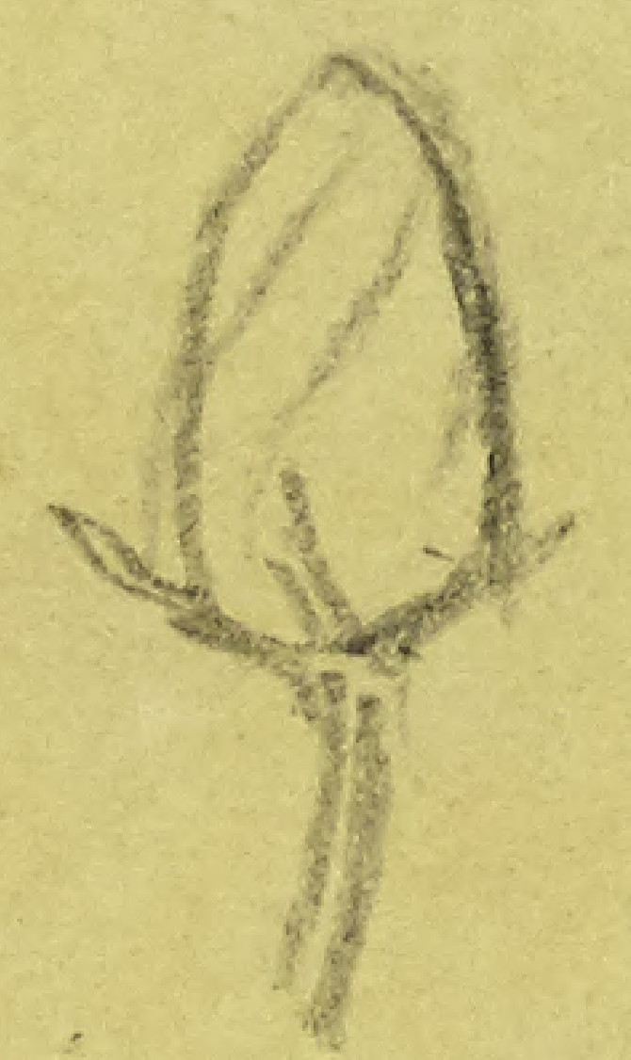
III

Gonolobus hirsutus

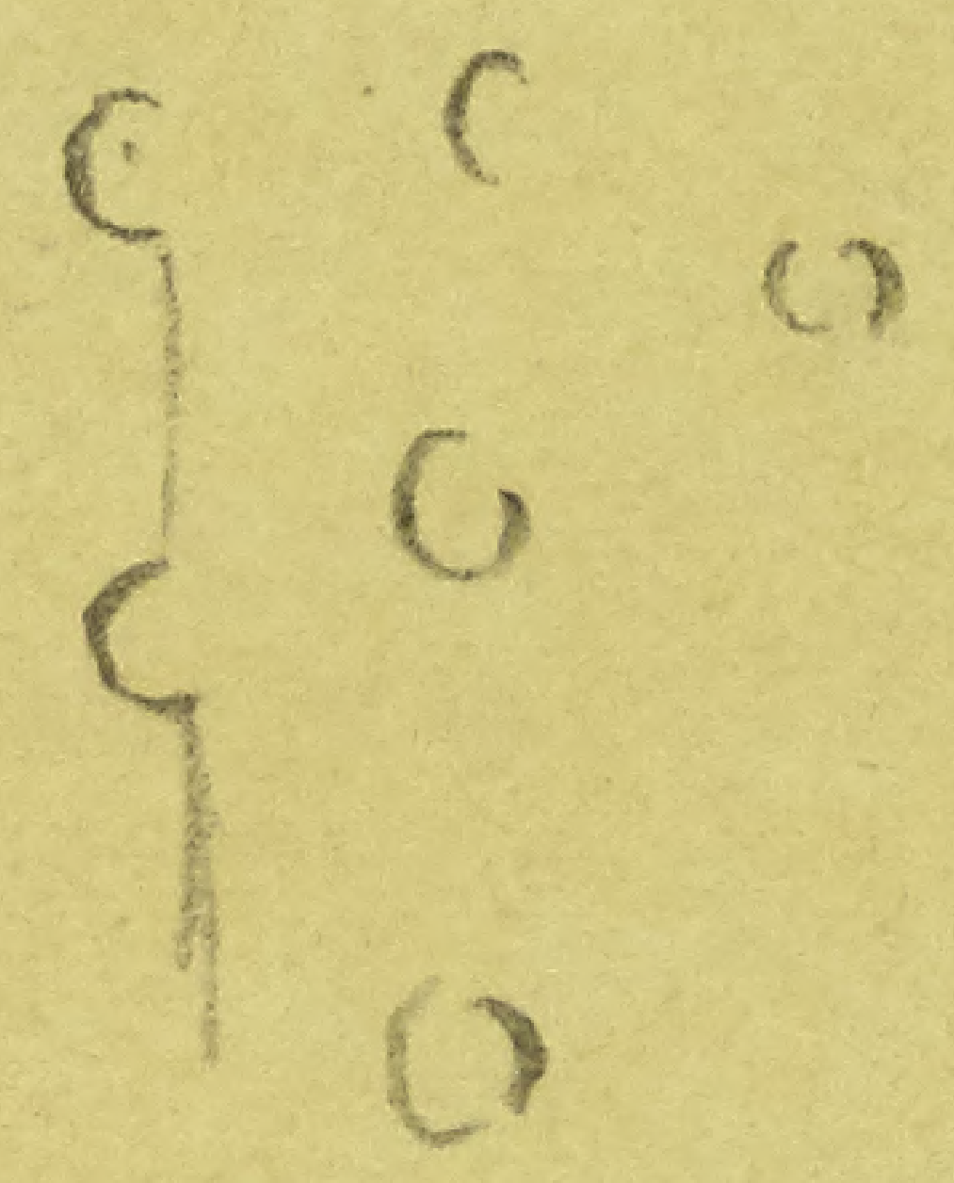
III Dr Mellichamp May 1877

May 15 1877

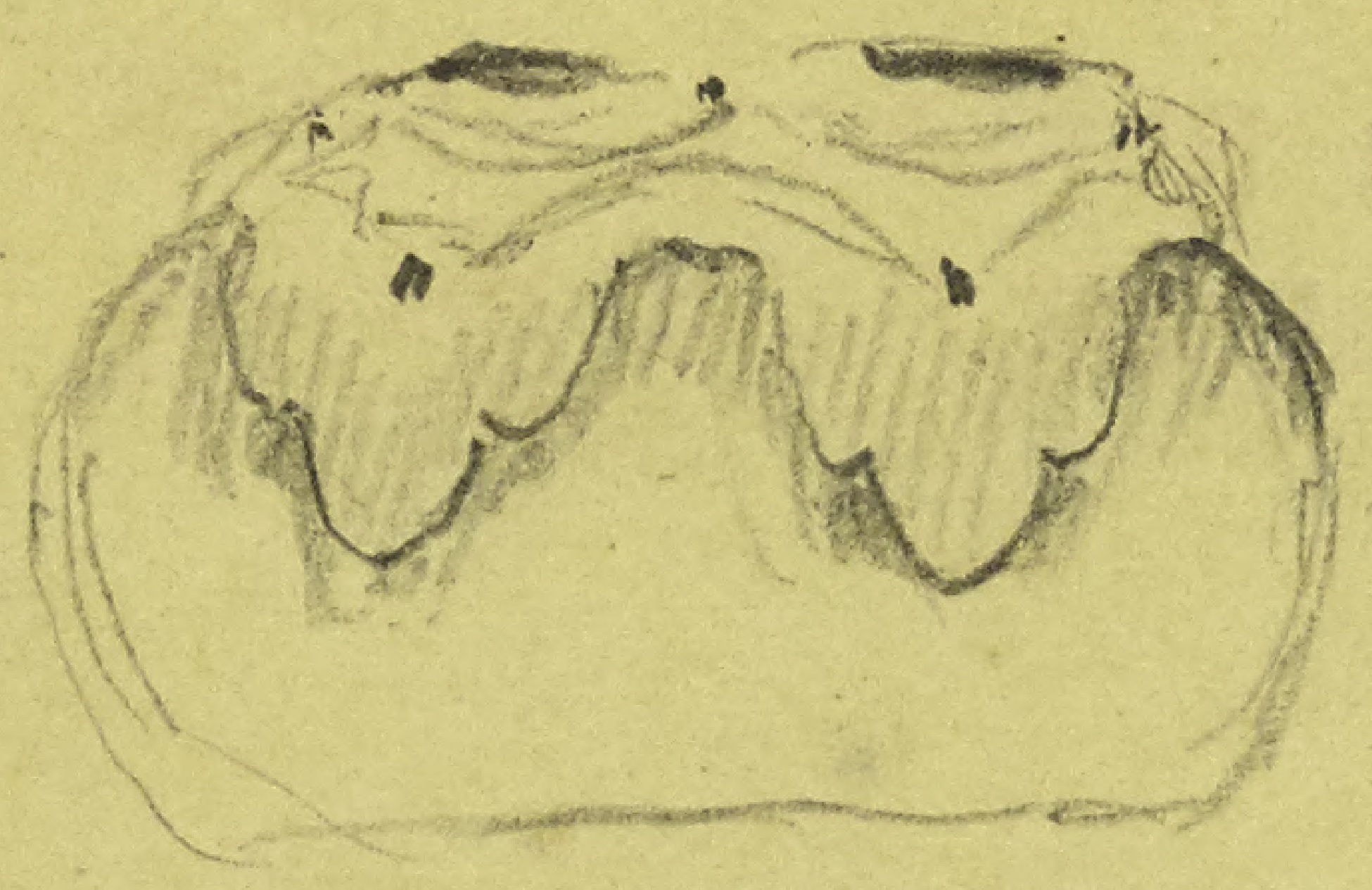




x10



surface of ovary x 60



cusps or lobes of anthers distinct semicircular

Corolla greenish reticulate at least dirty purplish

Corona of 5 lobes curved over the Gynostegium, and two toothed on each side thus representing the 15 teeth of other species.

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*For* ............

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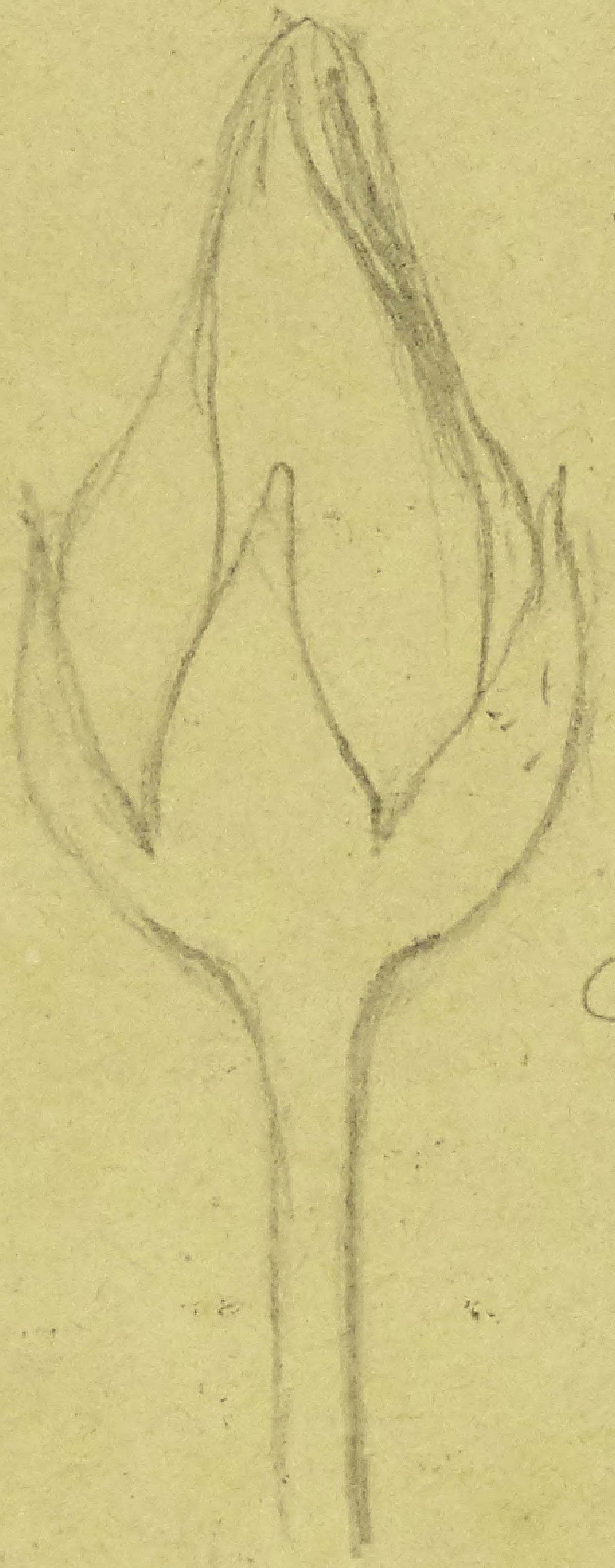
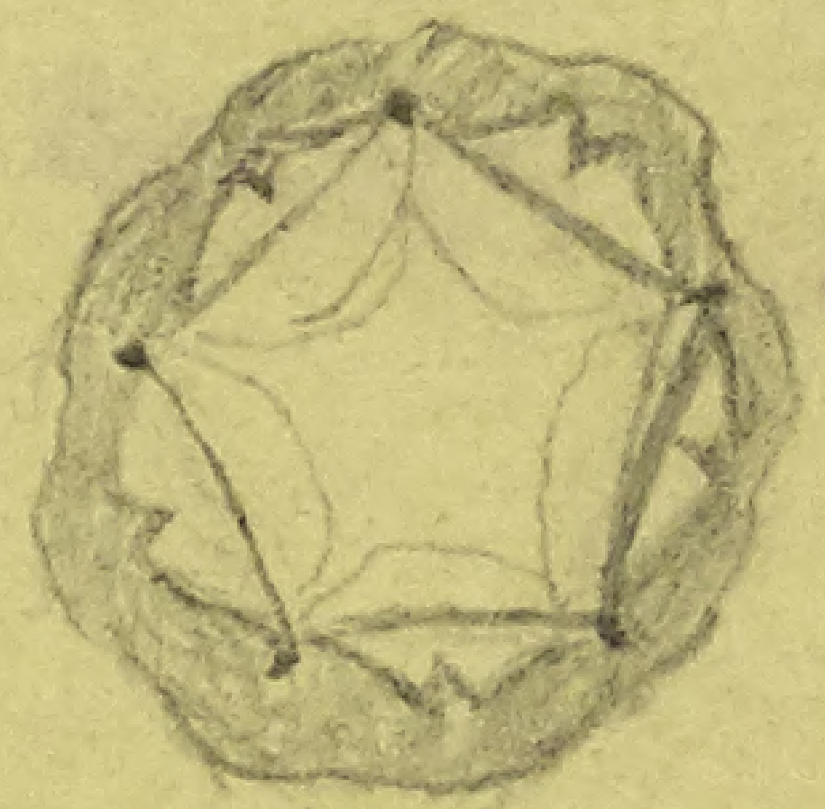
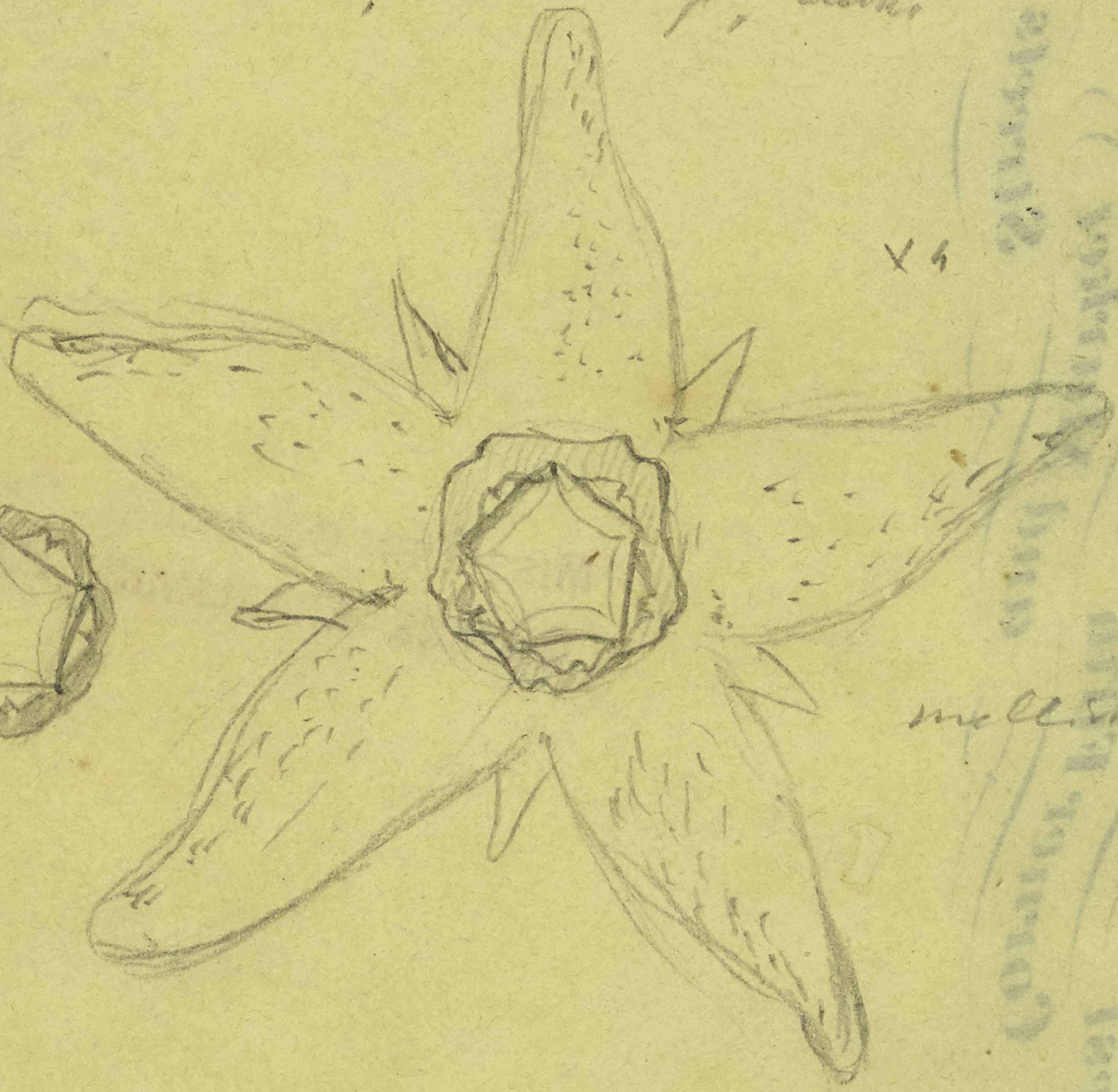
G. suberosus Cynanchum Lin Hort Cliff Febr 2 1877
fide Gray 1876
S. Carolina, Mellichamp, Curtis






×4
Mellichamp

Dr M. says, that the

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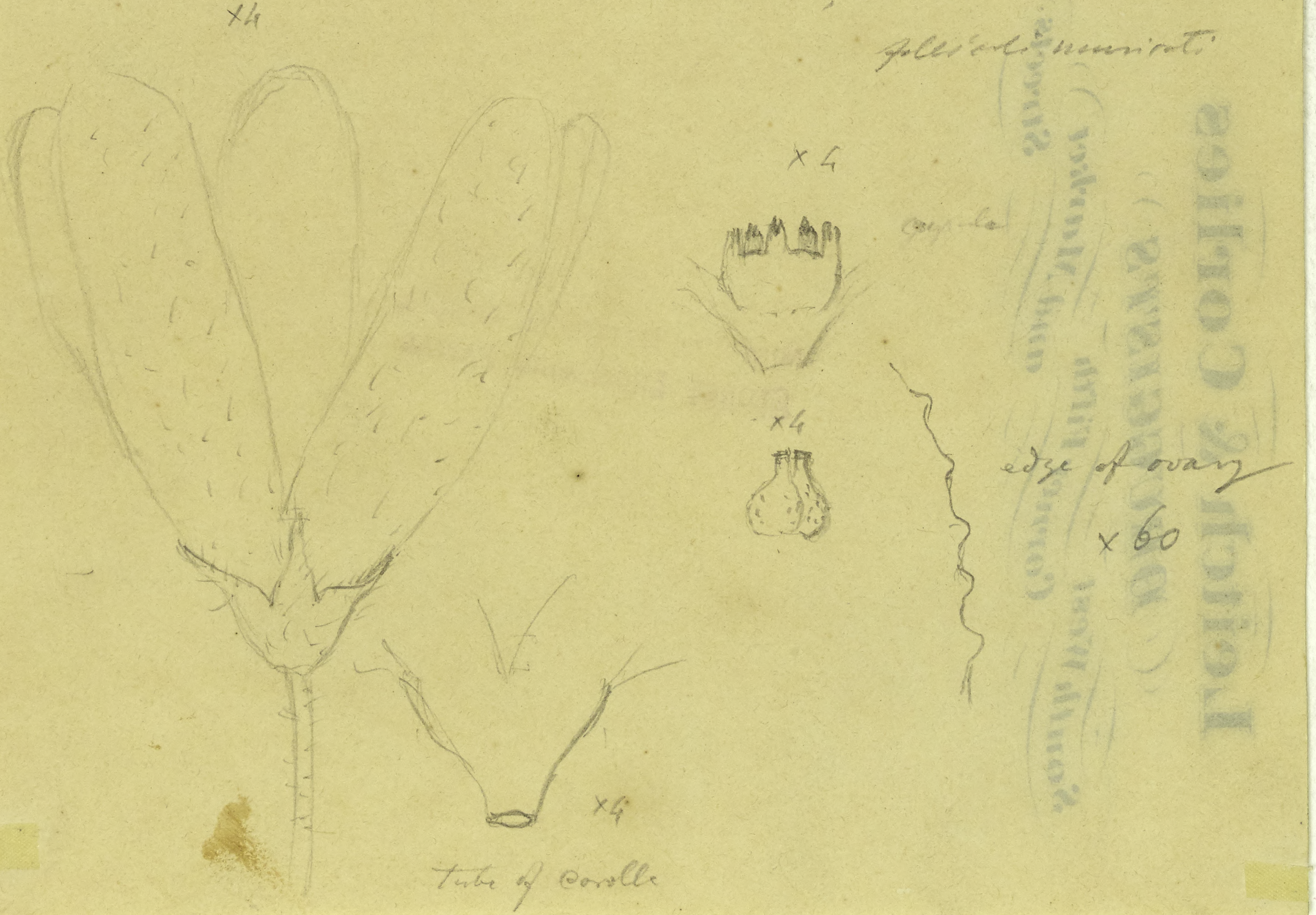
G. Carolinensis A Br Feb 4 1877

S. Carolina, Curtis

folliculi mucronati


×4
×4
cupula
×4
edge of ovary
×60
×4
tube of corolla

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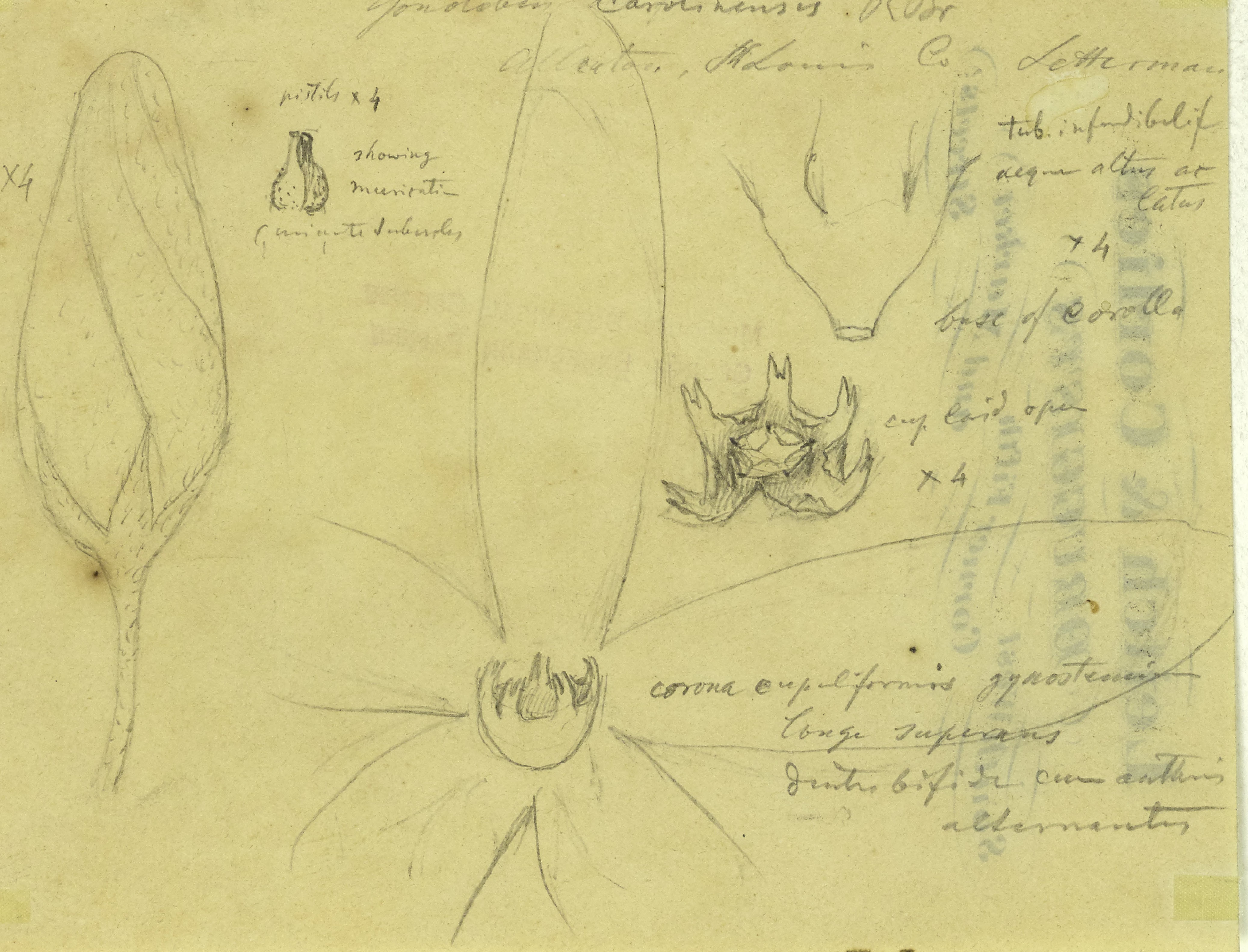
Febr 2. 1877

Gonolobus carolinensis R Br

Allenton, St Louis Co. Letterman


X4
pistils x 4
showing muricatio
Germinate tuberculos
x 4
base of corolla
cup laid open
x 4

tub. infundibulif aequa altus ac latus

corona cupuliformis gynostegium longe superans dentibus bifidis cum antheris alternantibus

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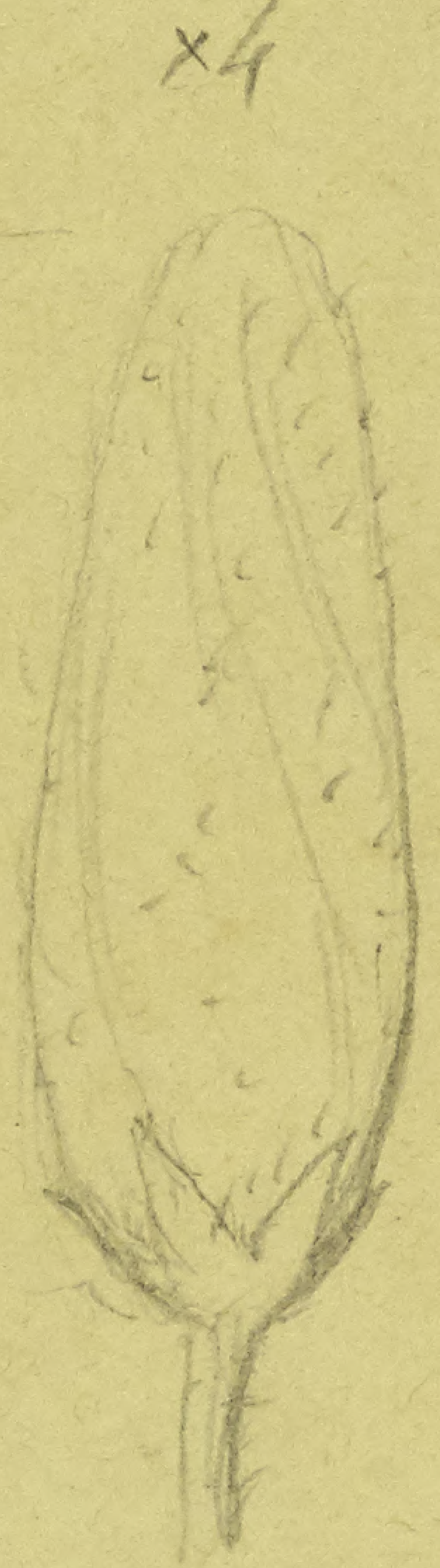
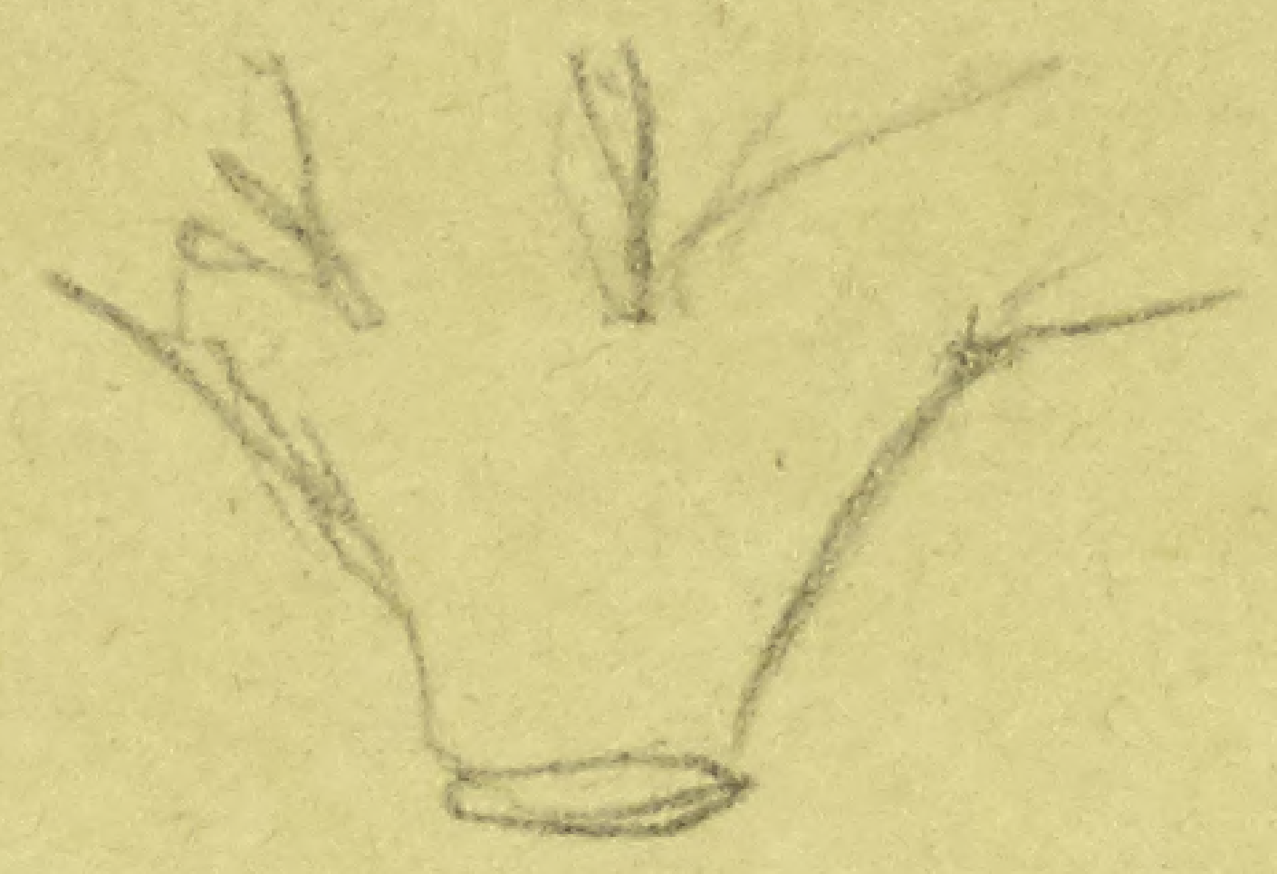
Gonolobus Baldwinianus Sweet
Gray

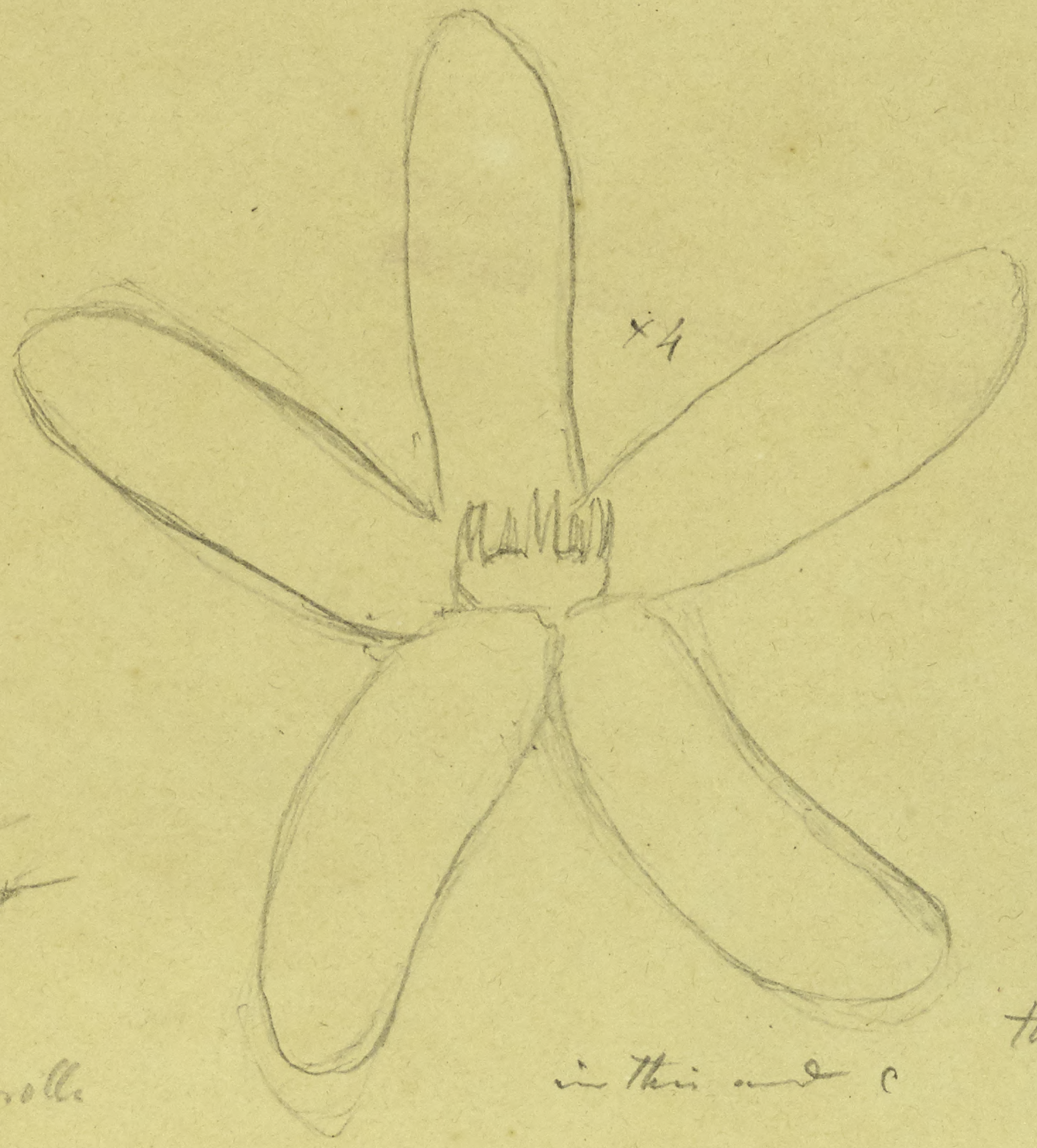
Feby 1877

nw Arkansas 1835 — G.E.
"whitish", fetid"

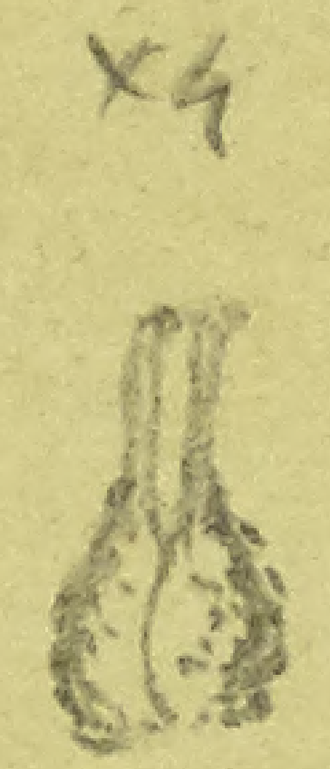


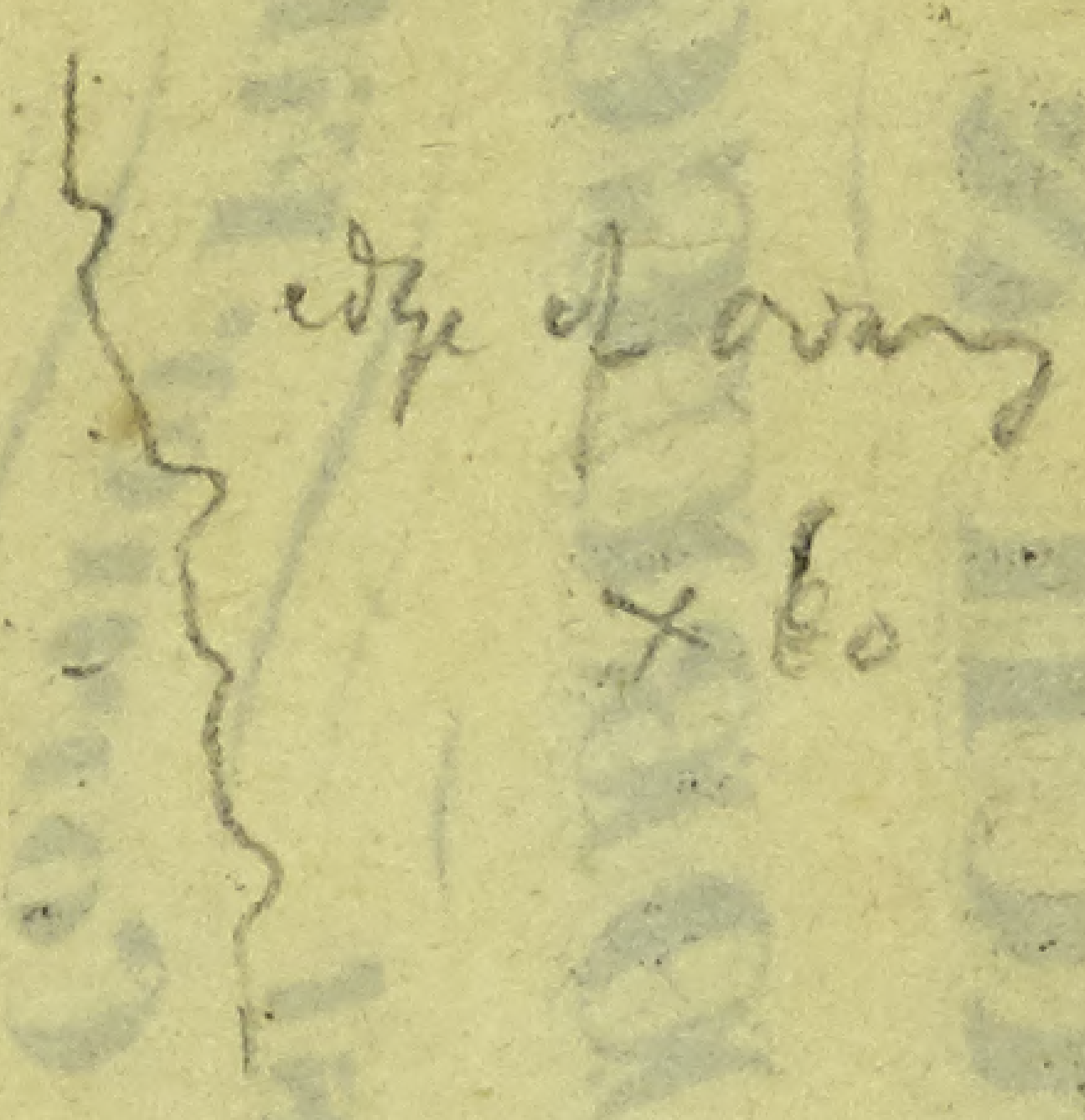


tube of corolla



in this and c





in the Gonolobi with
turbinate corolla tube
the corona is deeply
adnate to corolla

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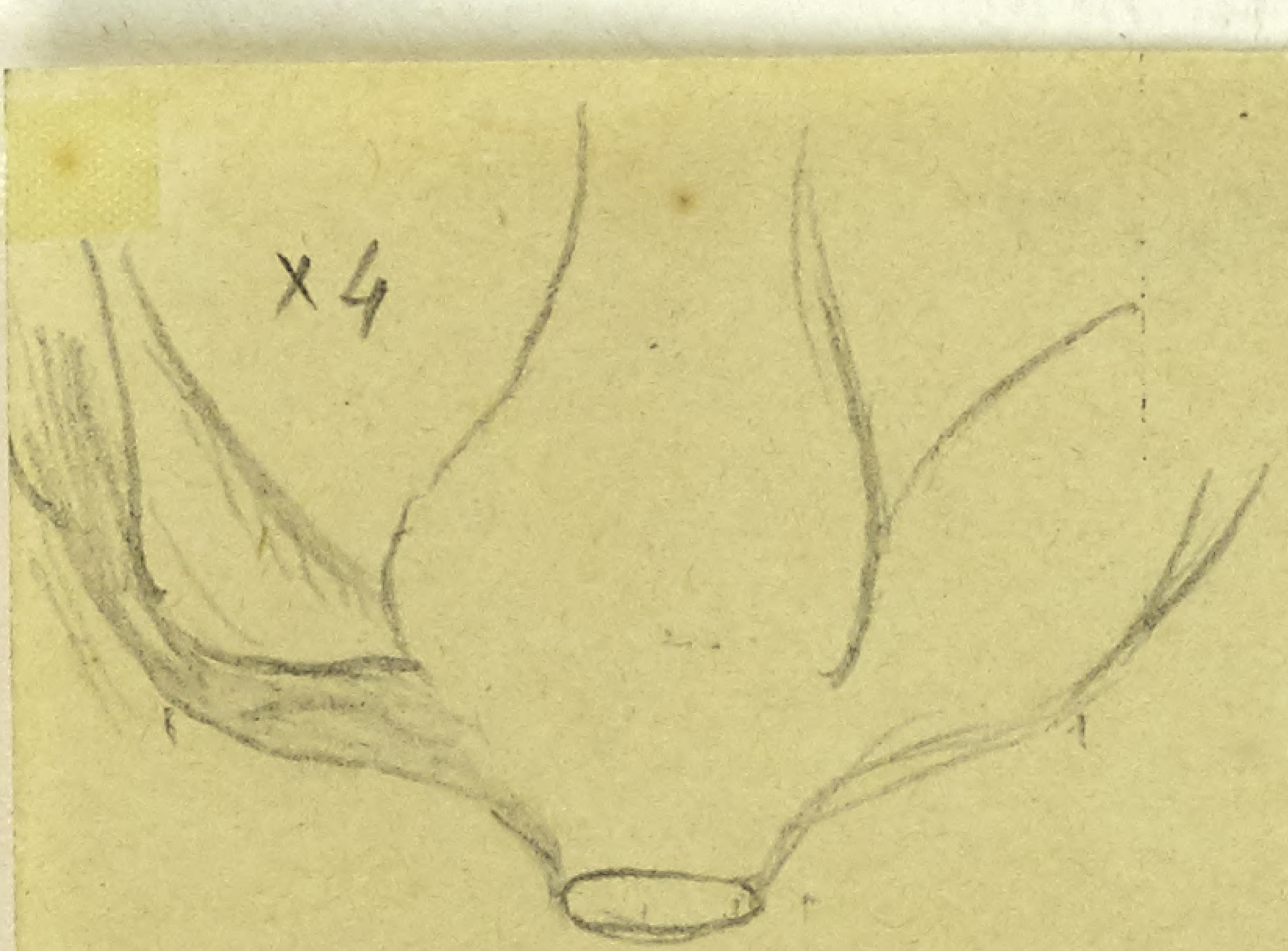
Gonolobus obliquus RBr    Febr 2 1877

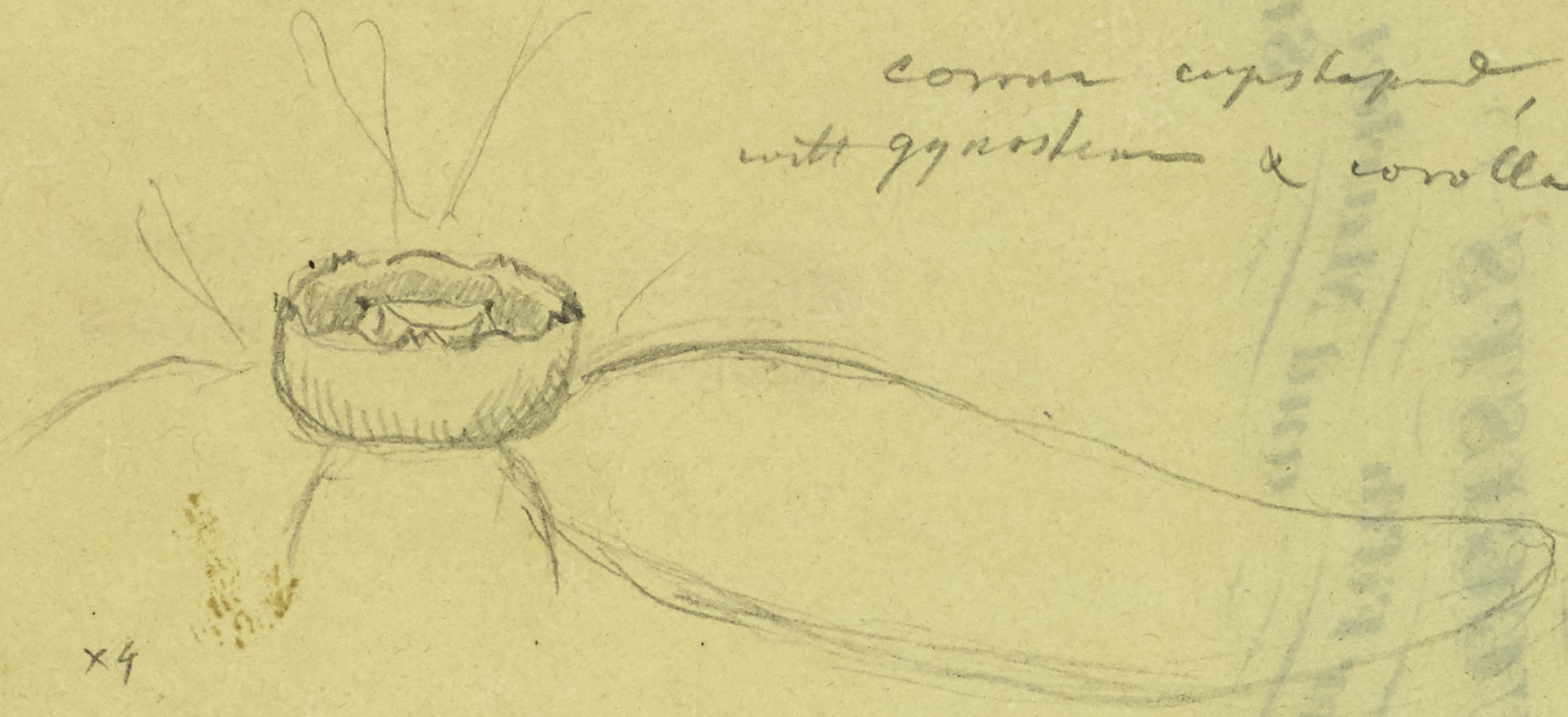
Mississippi    E Hilgard

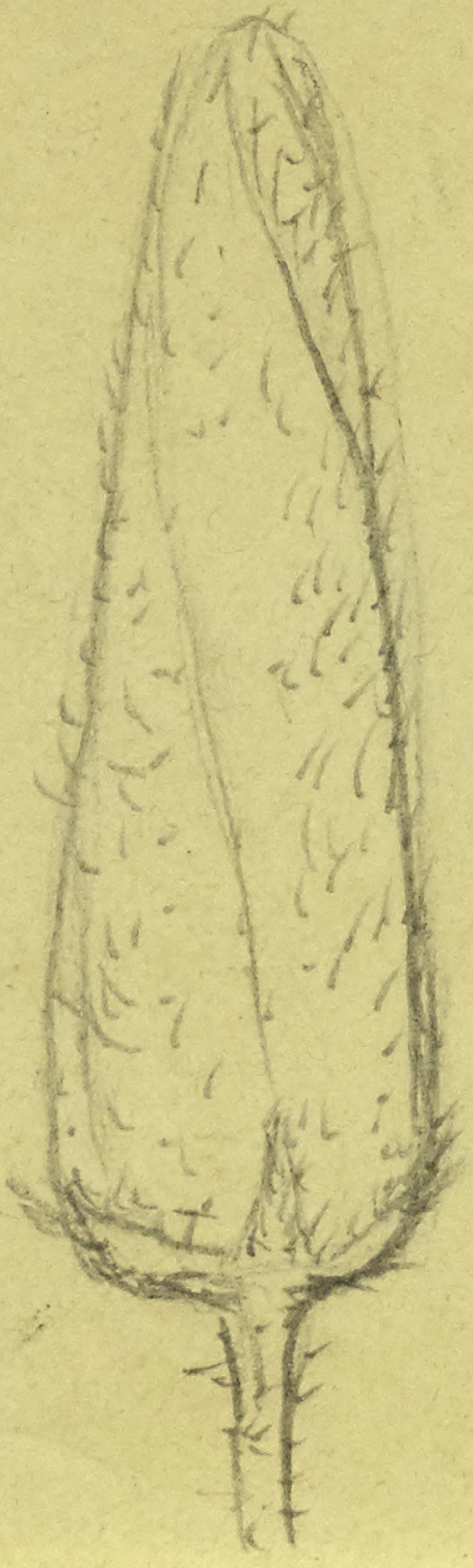
x4



Tubus brevis, multo latior quam profundus.

corona cupshaped, connate with gynostem & corolla





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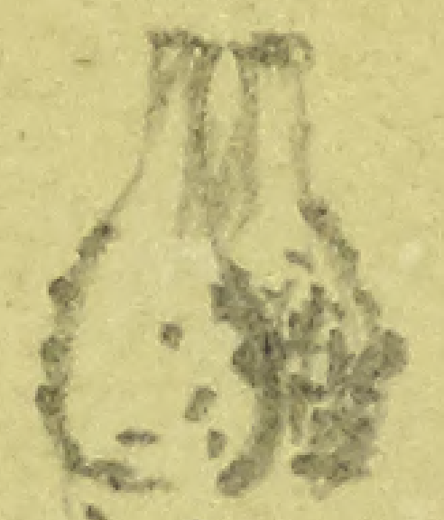

pistilla molliter tuberculata

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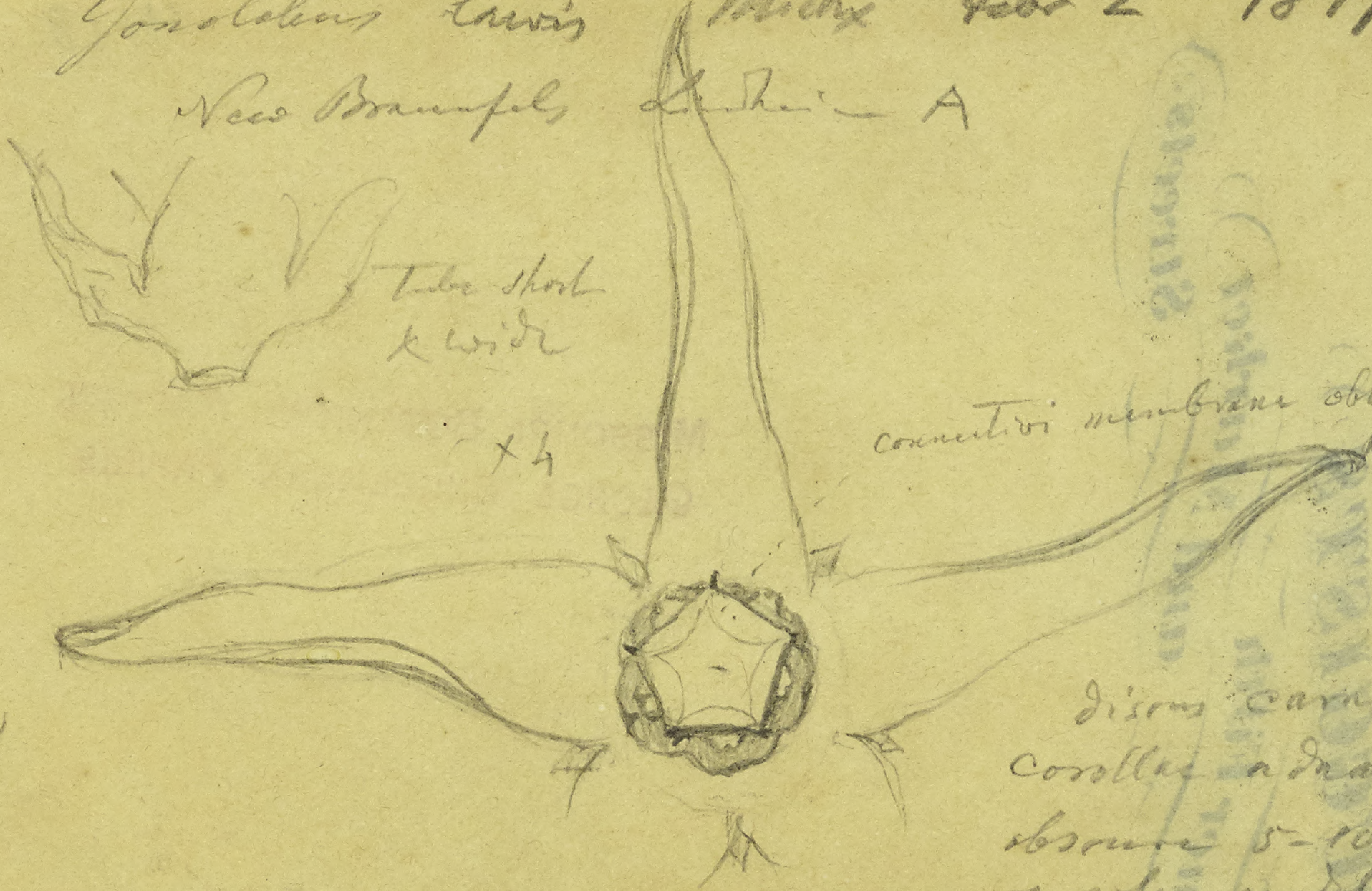
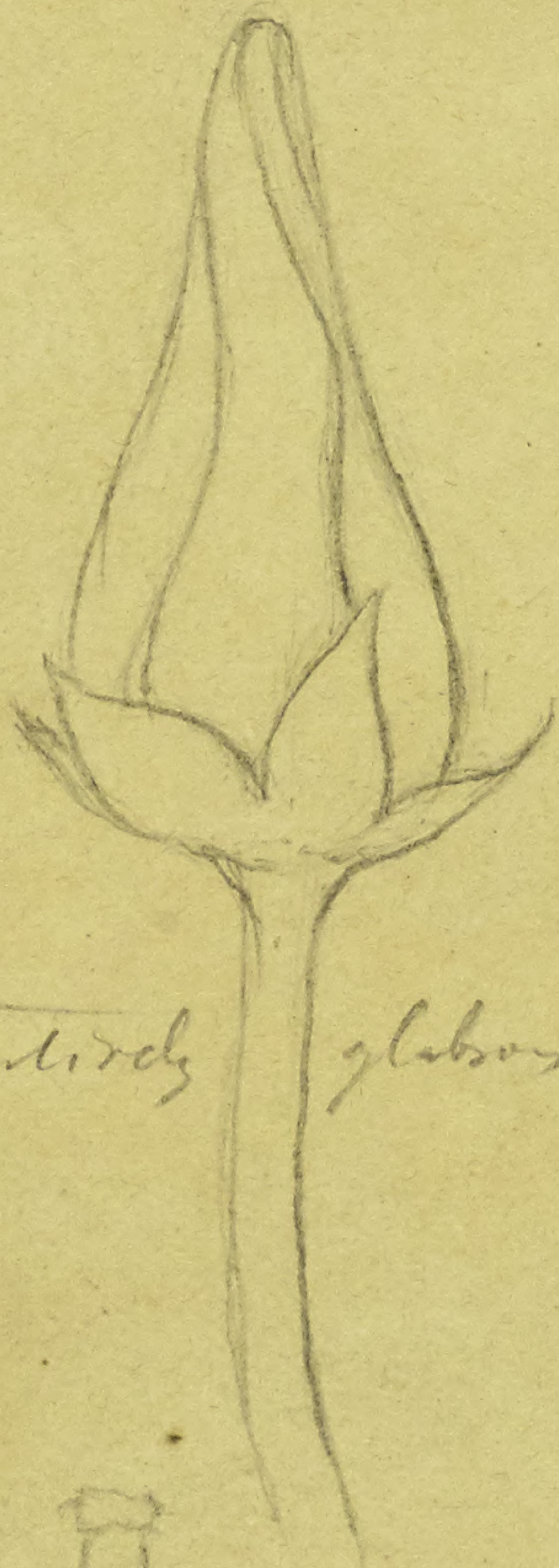
Gonolobus laevis Michx Febr 2 1877

New Braunfels Lindheimer A

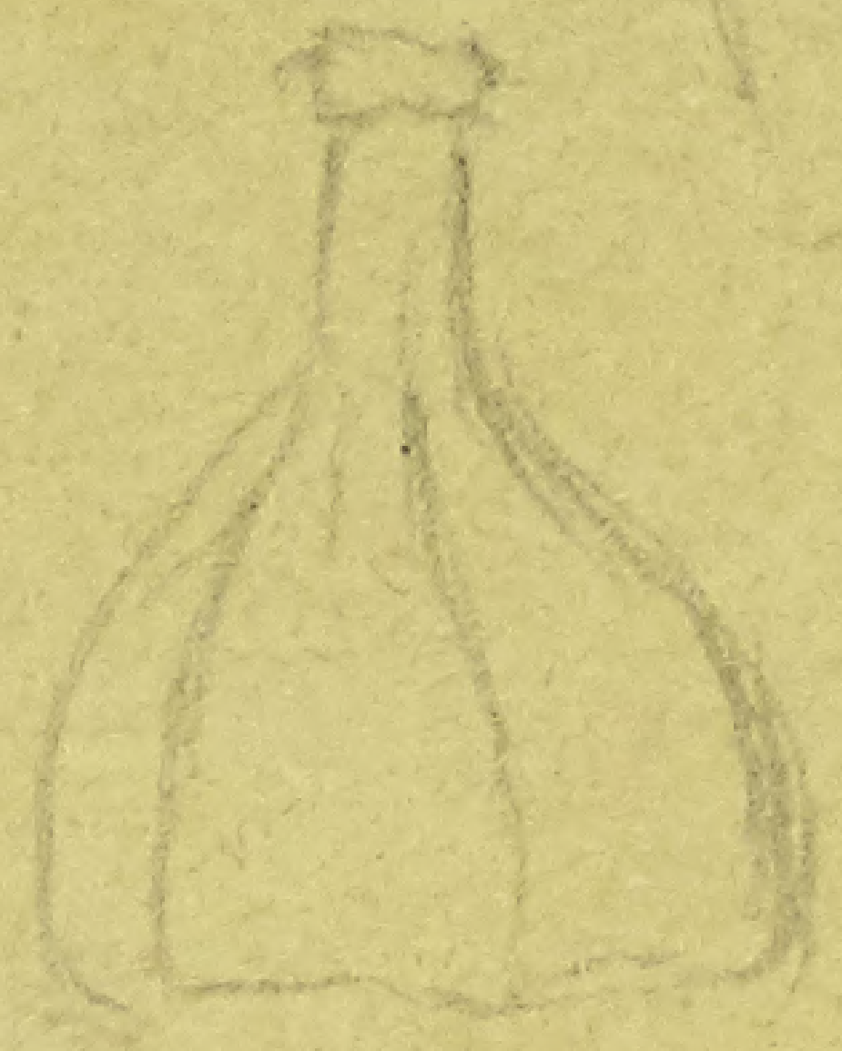


connectivi membrana obtusa rotundata plana inflexa



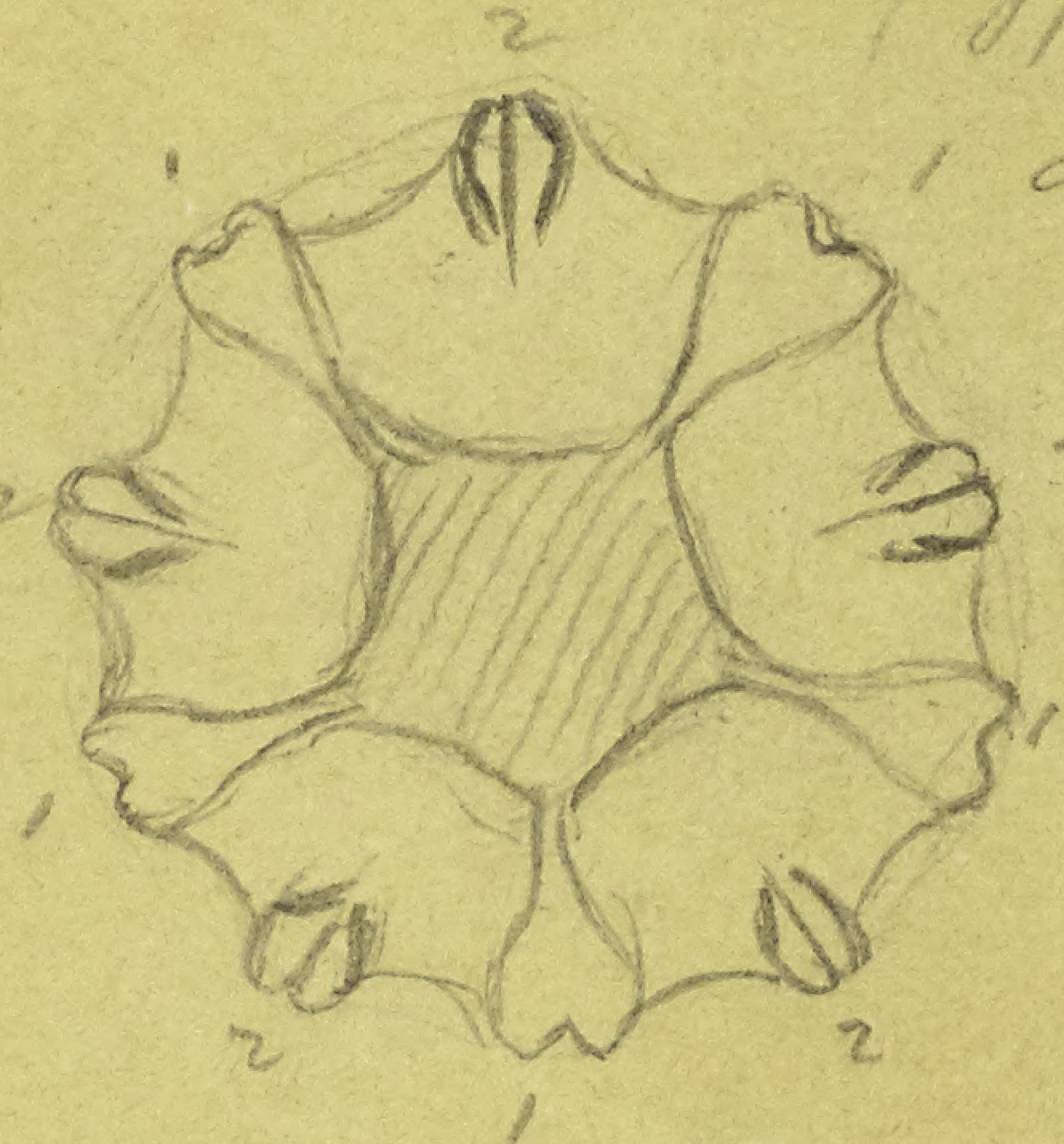
entirely glabrous

discus carnosus corollae adnatus obscure 5-10-crenatus s. solum undulatus



ovary x 10

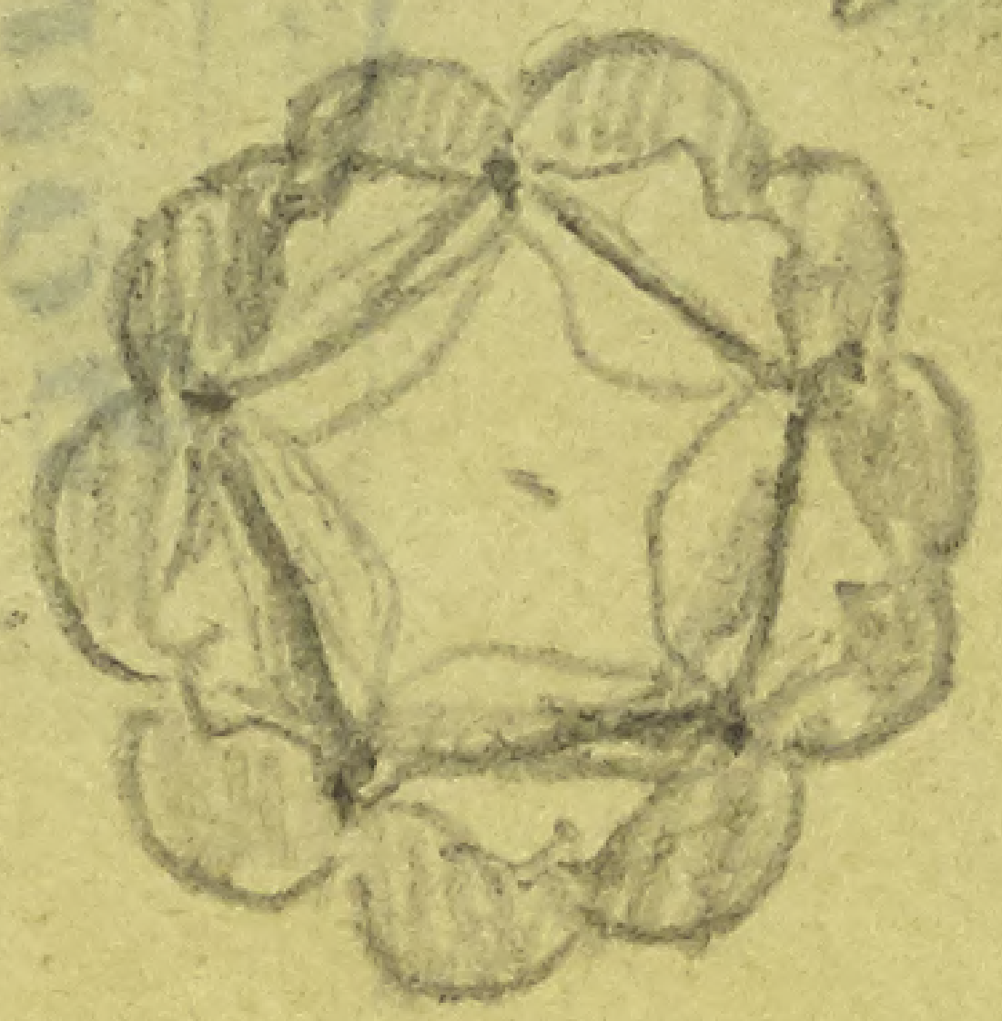
lower side of gynostegium



1 anther

2 lobes of anther a short rounded horny prominence

In large flowered Mississippi specimen corona distinctly 10-lobed



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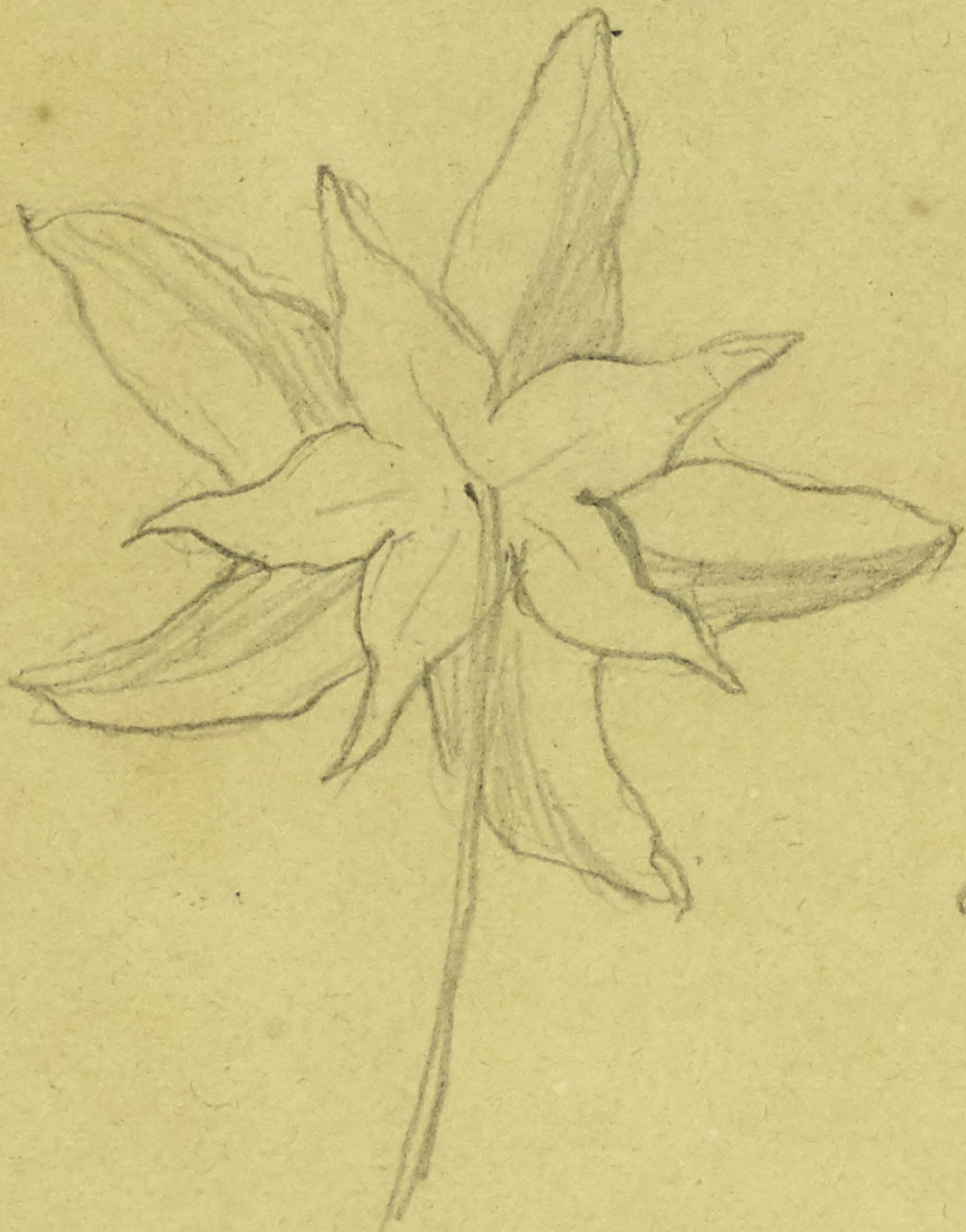
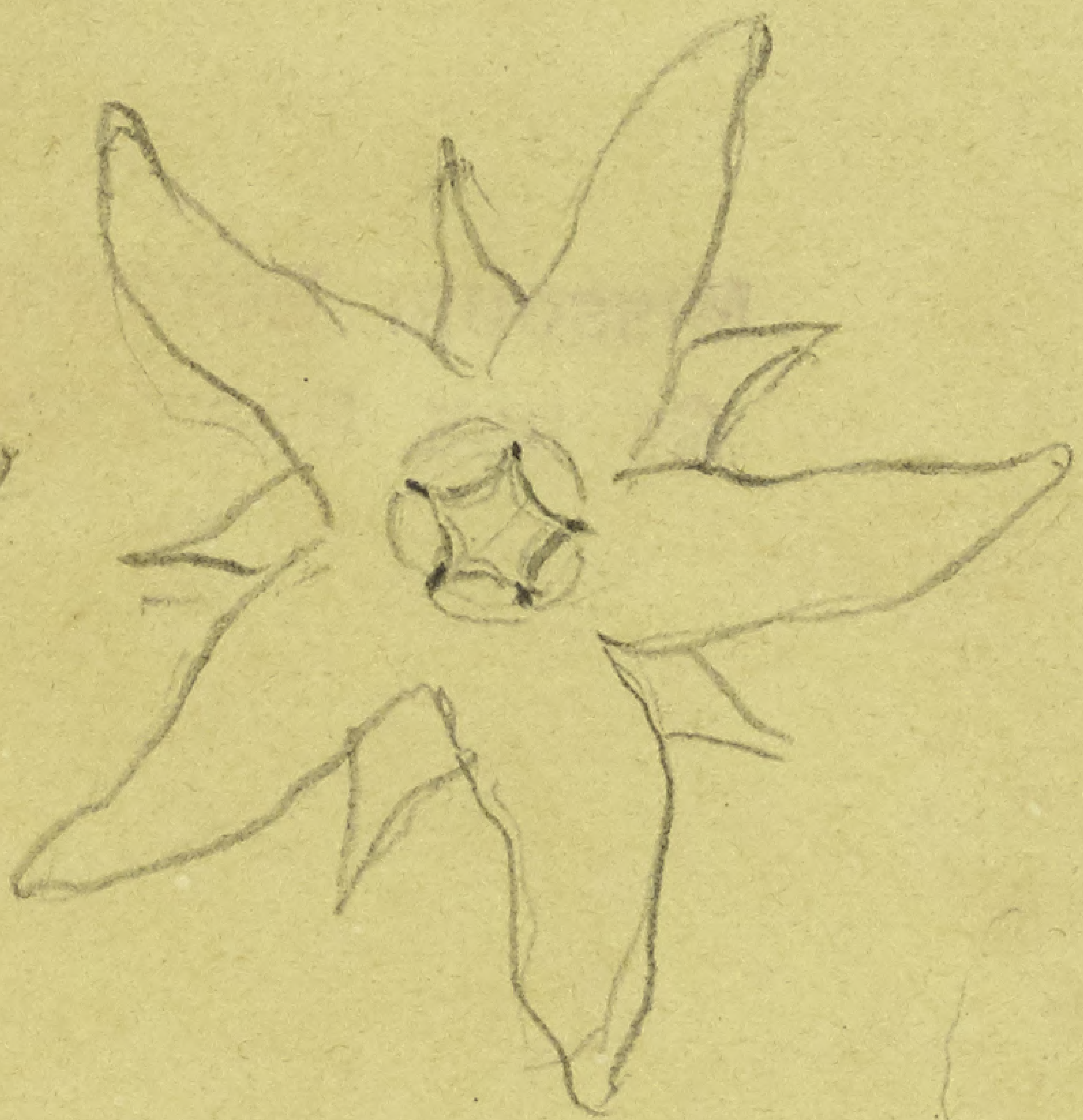
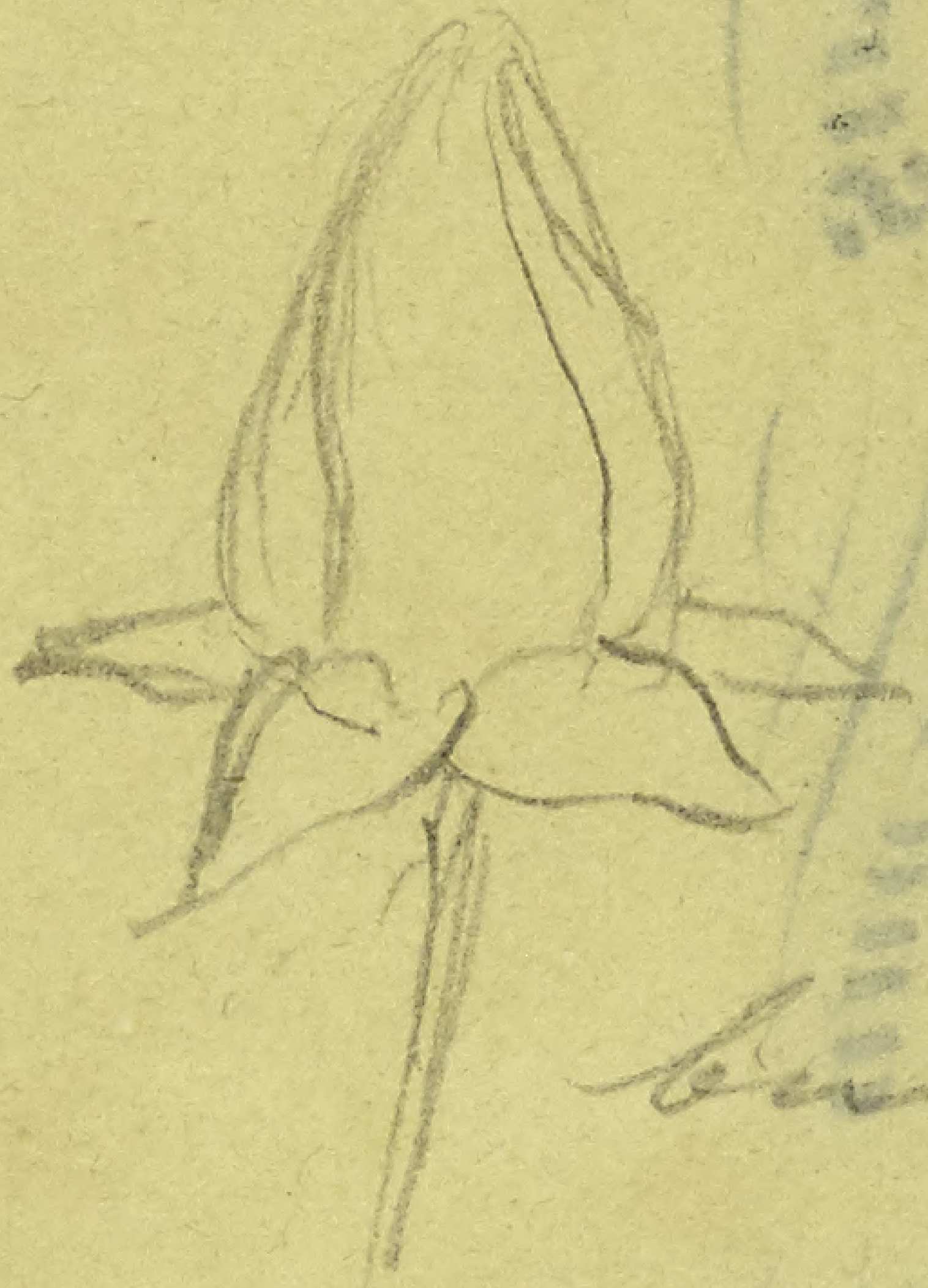
Gonolobus lucidus Feb 4 1877

662 Chiapas Ghiesbreght

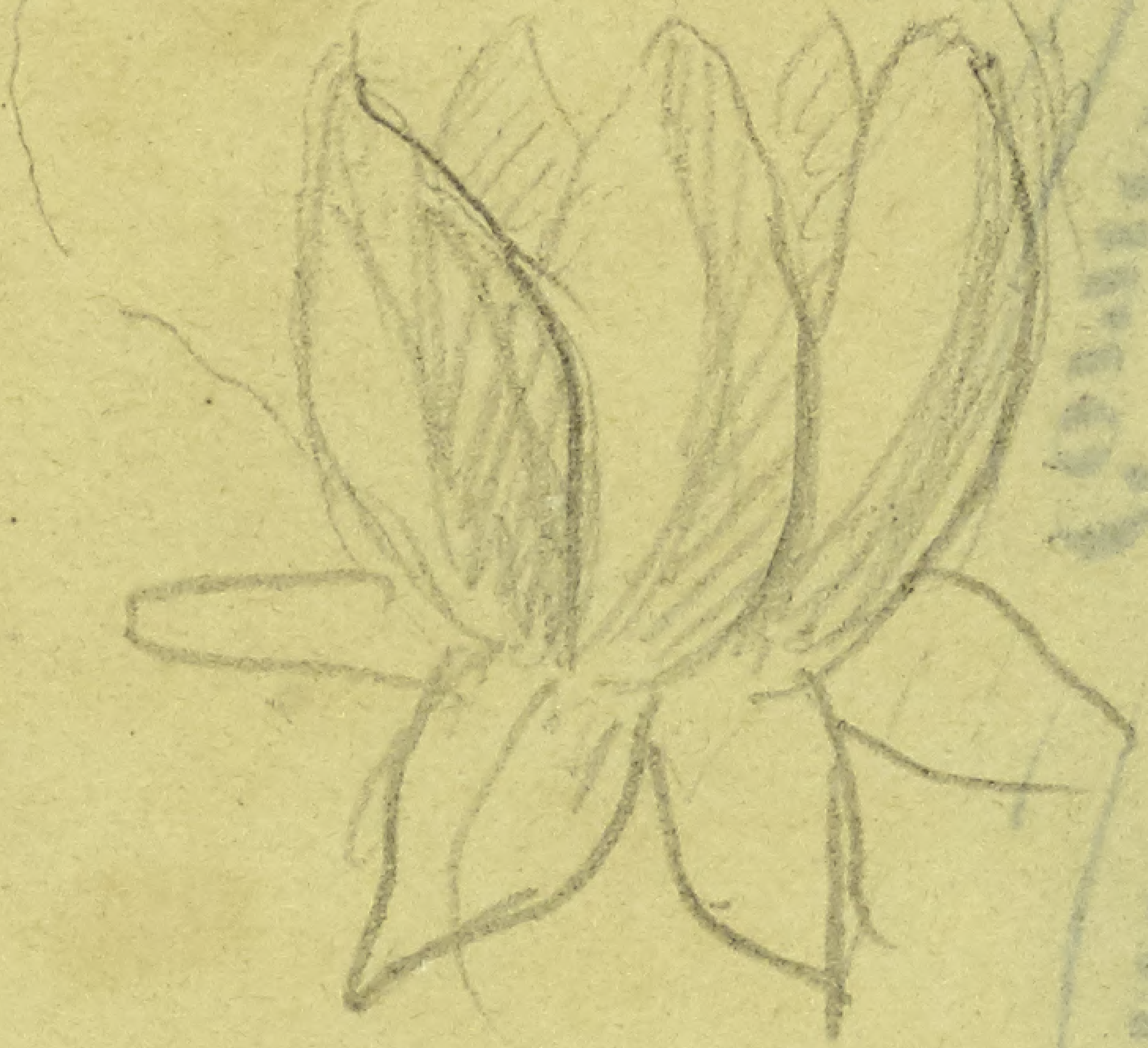
not ripe







bud



bud just opening

the dark half of corolla lobes is the exterior, calycine one the light side, the petaloid interior, coloured on

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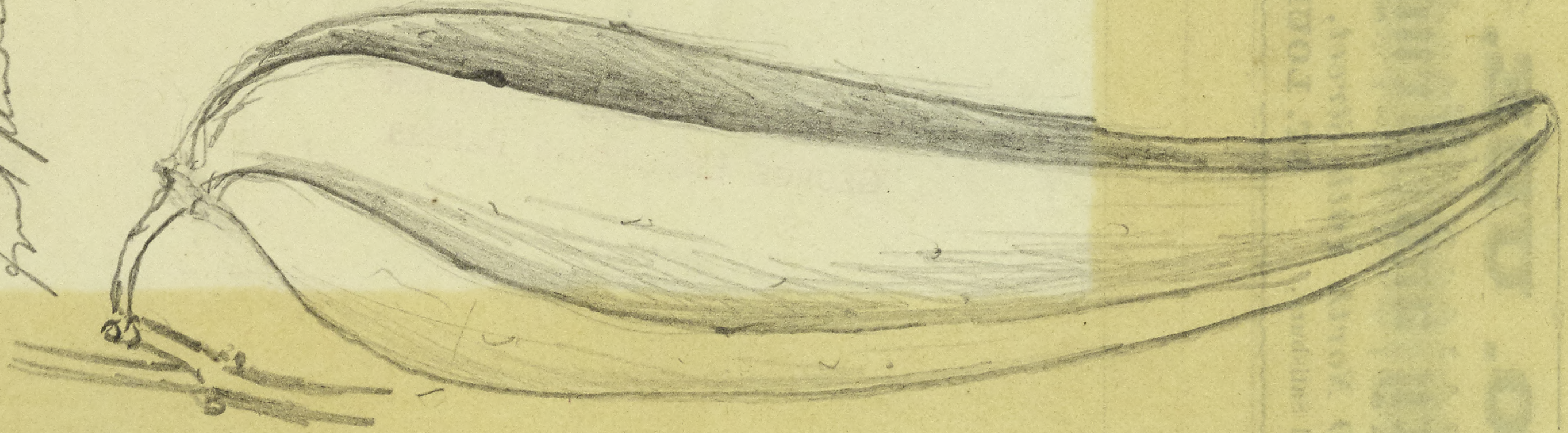
Gonolobus suberosus

Sept 11 1877

S. Carolina. Mellichamp

gonocarpus Walter

upper side
fruit peduncle



edges with slight tendency
to tubercles

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For ........

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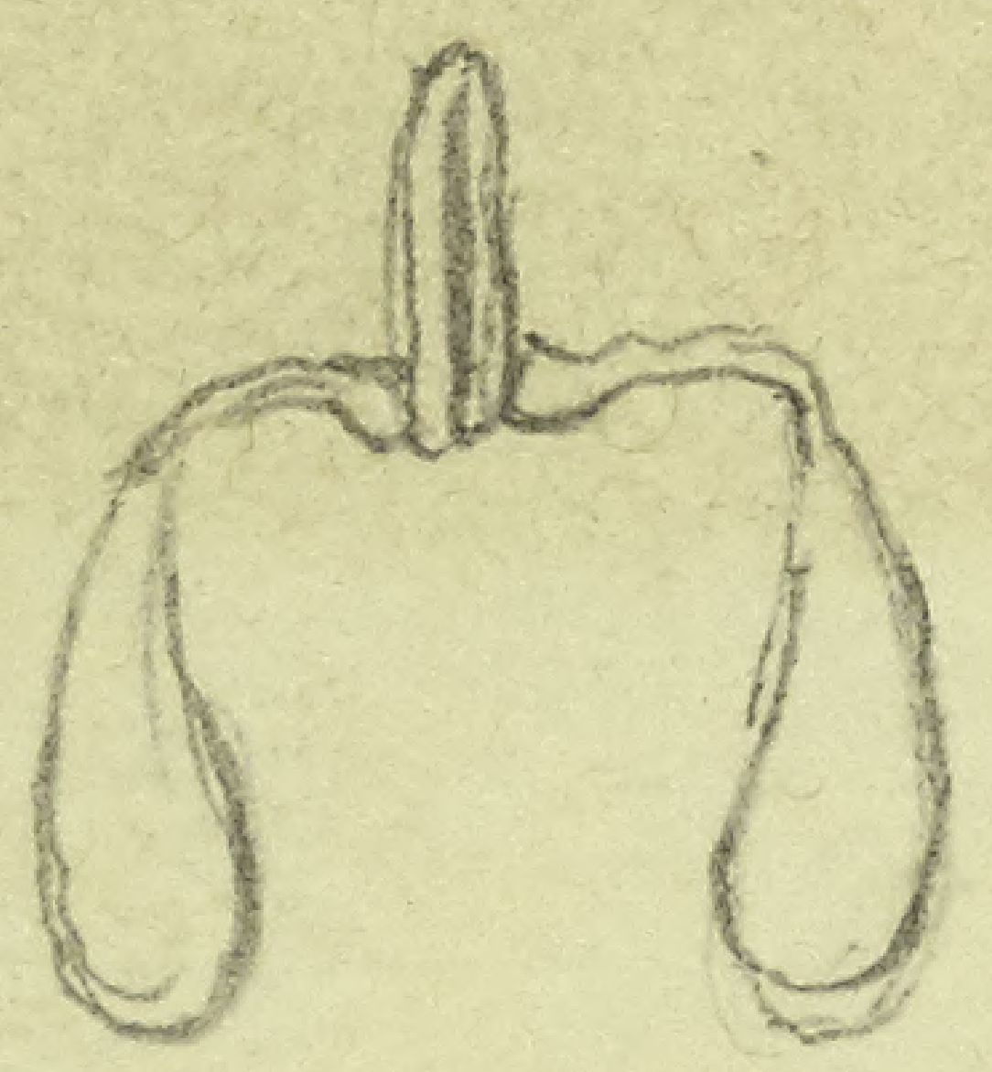
Cynoctonum scopar  Aug 25 1878

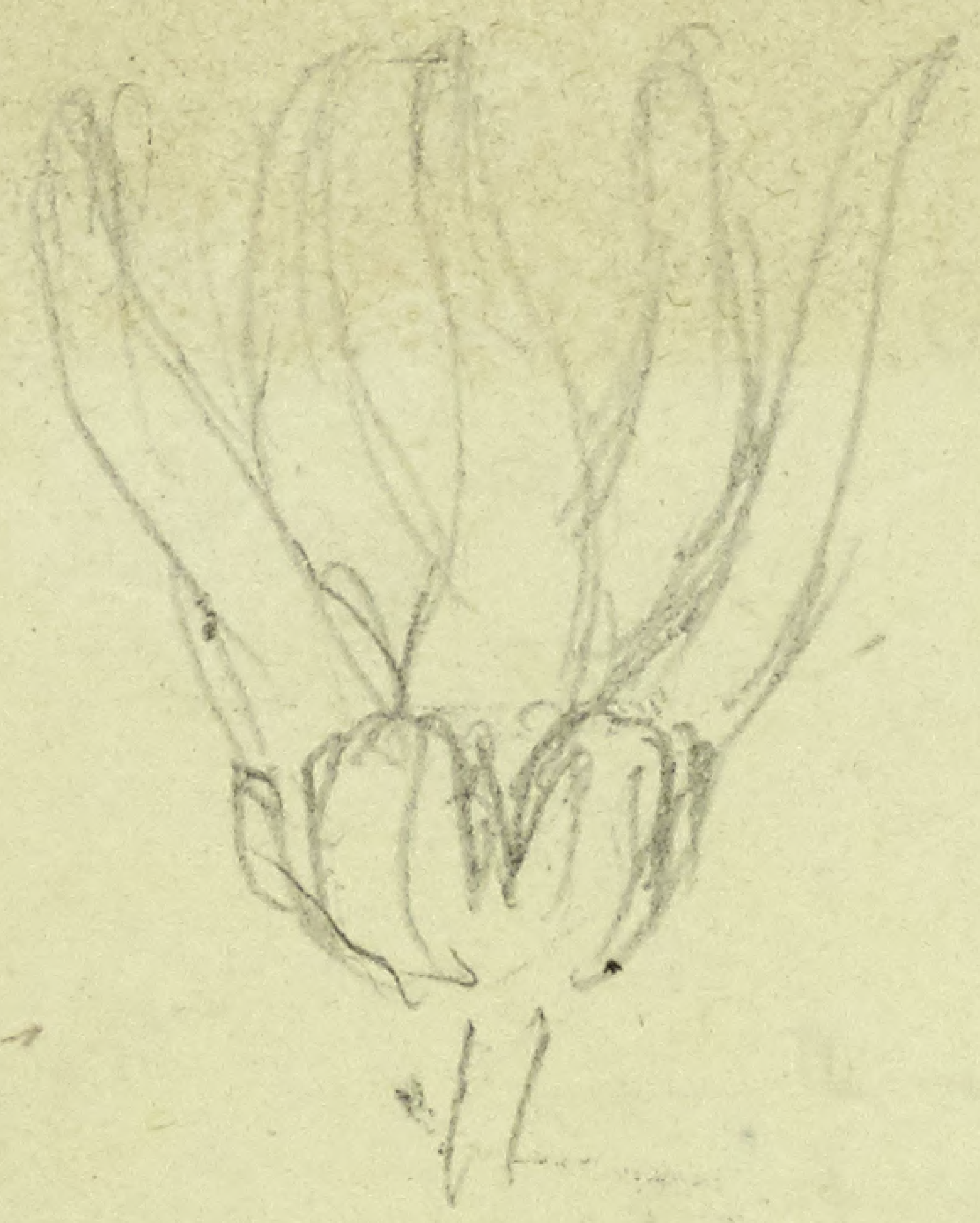
Dr Mellichamp Aug 1878

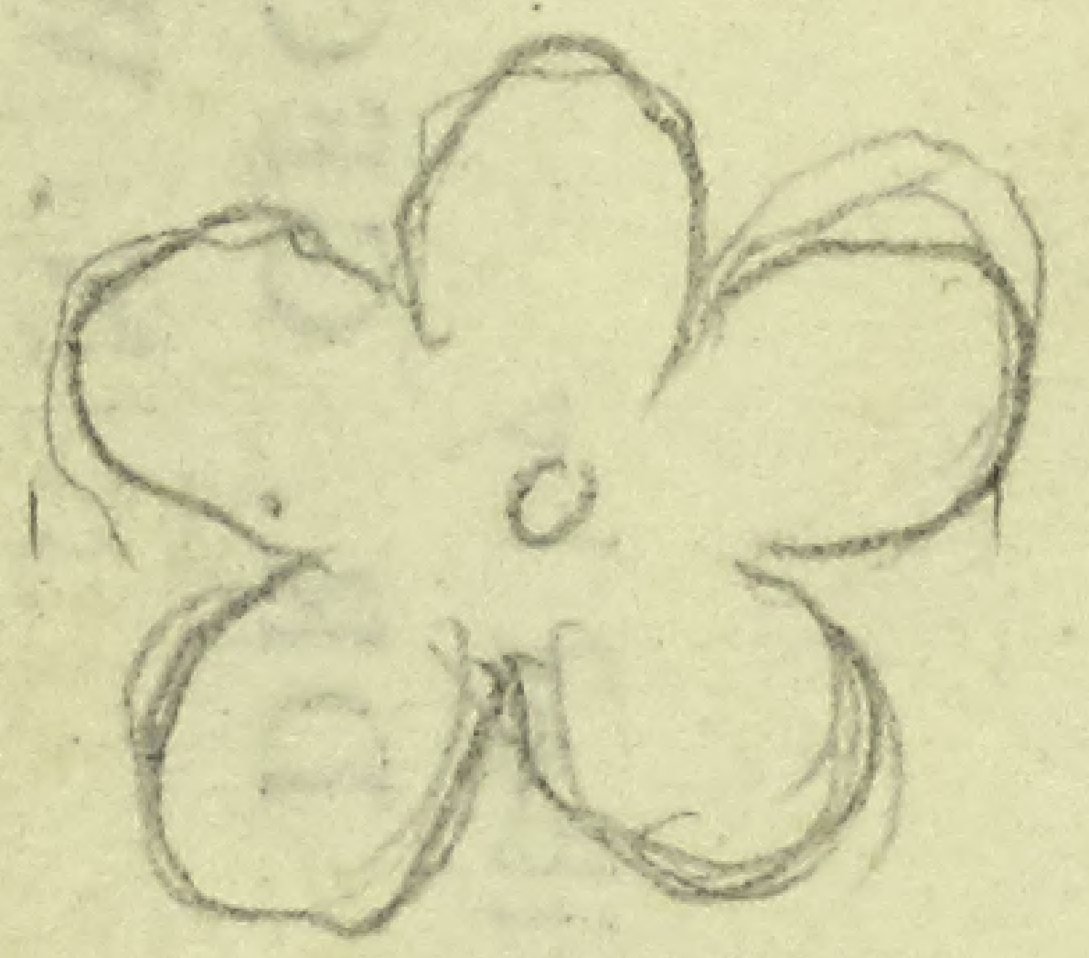
x60



corpuscle linear

x10





calyx x10

0 1 2 3 4 5 6 7 8 9 10
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MISSOURI BOTANICAL GARDEN

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# Prescription Store,

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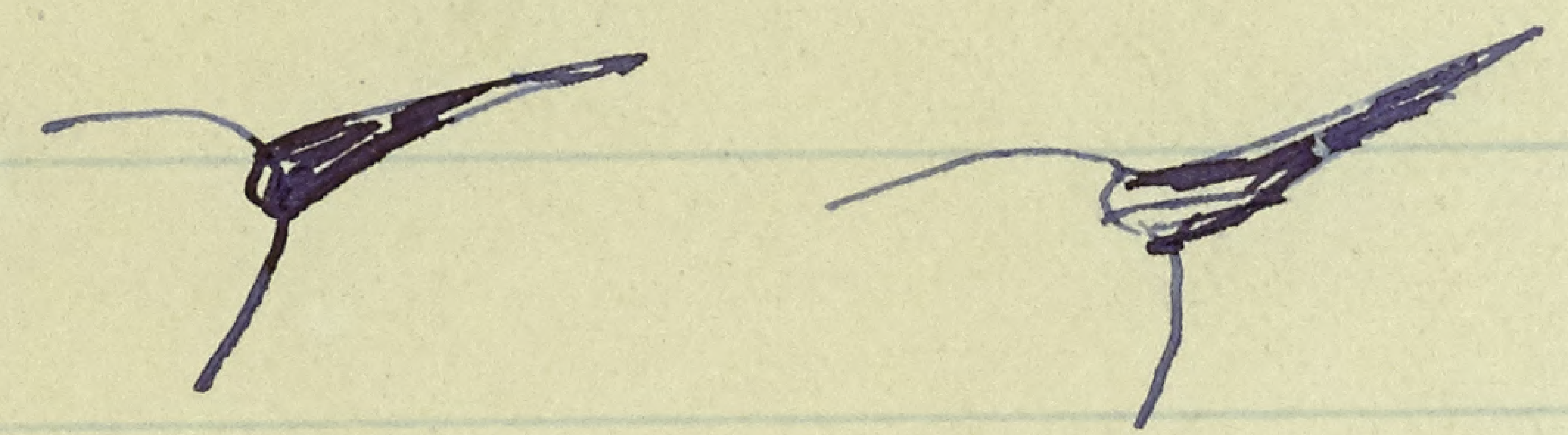
Prescribed by
DR. GEO. ENGELMANN,
N. W. Cor. Garrison Ave. & Locust St.,

Hoodia Bainii Sweet figured in Bot. Mag. 6348 (March 1 1878) is a stapeliaceous plant; tubercles mamillate, in rows, each terminated by a brown spine



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